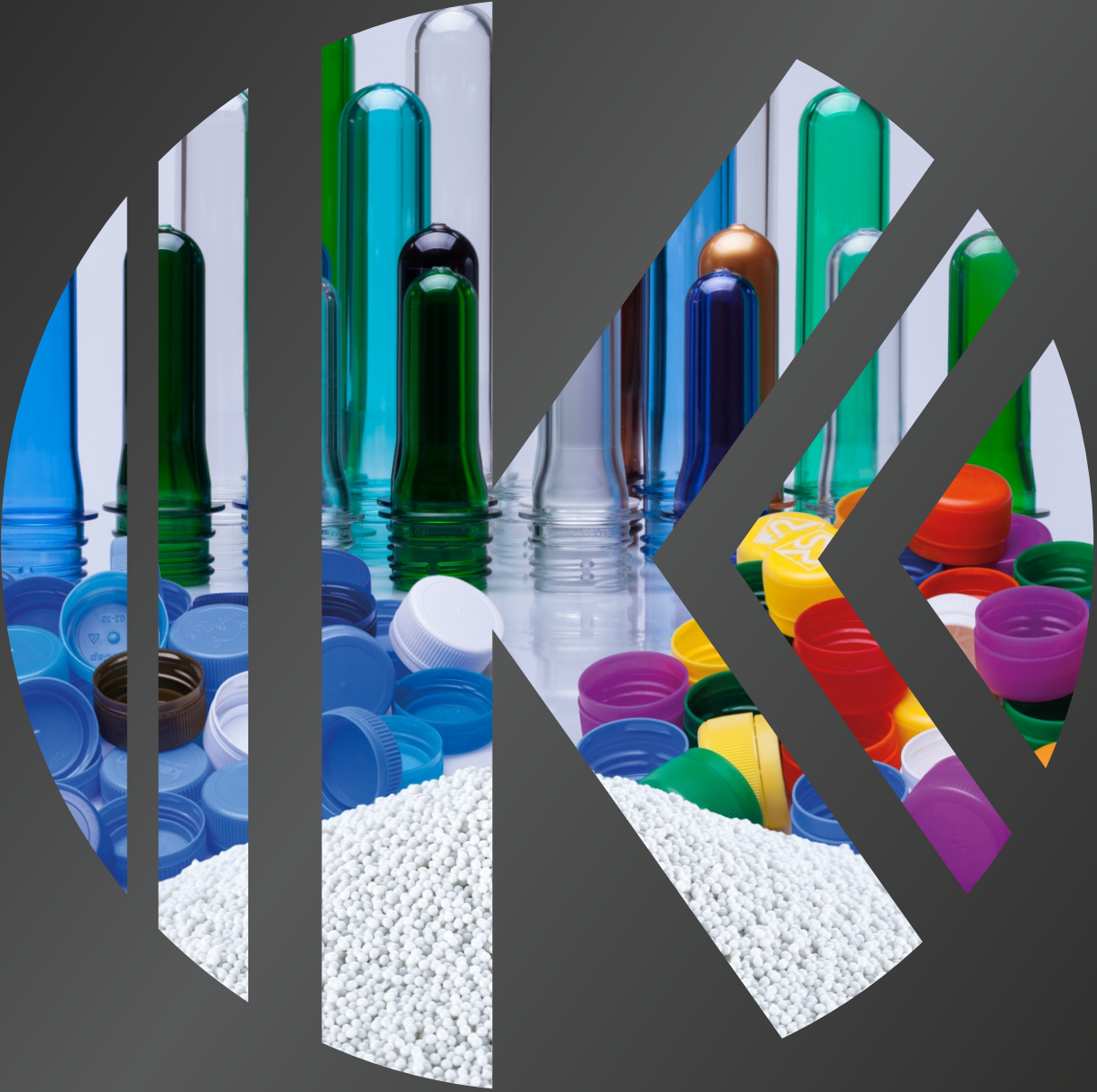




KÖKSAN
PET PACKAGING INDUSTRY CO.



P R O D U C T S



WWW.KOKSAN.COM

- › *Exporting over 100 countries.*
- › *Leading company in its sector.*
- › *Europe's largest PET Resin and PET Preform production facility under one roof.*
- › *Annual production of 500 K tons of PET Resin.*
- › *Annual production of 110 K tons of R-PET Resin.*
- › *Annual production of 240 K tons of PET Preforms.*
- › *Annual production of 21,6 K tons of Flexible Packaging.*
(Industrial Stretch Films, Shrink Films and Bubble Wrap.)
- › *Annual production of 22,5 K tons of PET Sheet.*
- › *Annual production of 18,2 K tons of PE (HDPE/LDPE) CAPs.*
- › *Annual production of 72 K tons of PET Flakes.*
- › *Sustainable and environmentally friendly production.*
- › *Superior quality practises and environmentally friendly investments.*
- › *Sustainable Renewable Energy production and consumption.*
- › *Approved supplier certificates.*

Broad Experience, Superior Quality

We are the reliable solution partner of the global brands with half a century of our broad experience, strong financial structure, environmentally friendly production approach through implementing high technology in entire processes. Having domestic and international documentations and certificates in the total quality management (TQM) system and exporting over 100 countries globally with regional sales system. We offer our high-quality products to our clients with optimized production processes as we follow the best manufacturing practices through implementations of the continuous process- improvement to ensure the best product quality.

Efficiency and Sustainability

Our products are designed, developed and analyzed in accordance with the safety, quality, reliability and recycling standards. We are eager to modernize our products more efficiently and with less waste in our production facilities. We put emphasis on the production and use of sustainable and recyclable materials such as advanced product development and testing activities, and r-pet resin (recycle pet resin) obtained by chemical and mechanical recycling.

Compliance with Food Safety and Legislation

As a company, having all food safety standard certificates, we never compromise on the food safety. We are the approved supplier of many international food companies as we produce our products in accordance with the food safety standards, in line with the customer demands along with the legal obligations. Our production team consists of well-trained engineers and expert personnel.

Technical Support

With our well-equipped and competent technical service teams, we monitor your line's efficiency and the seamless integration of our products into the customers' production processes. With our company policies that support continuous improvement, we evaluate and value the feedback of both our customers and employees to produce the best possible products in the industry. We provide a safe and efficient customer experience practices through our commitment to best practices and robust quality management systems.



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PET RESIN



TECHNICAL DATA SHEET KÖKSAN PET

Product Description

KÖKSAN PET Resin is a general purpose food grade PET copolymer resin that is suitable for a wide variety of application like containers and films. KÖKSAN PET Resin offers an excellent strength characteristics like dimensional stability and mechanical properties. KÖKSAN PET Resin is suitable for injection, injection stretch blow molding and extrusion application mainly for carbofild soft drinks, water bottles, alcoholic beverages, households, oil, agrochemicals, wide mouth containers, PET sheets and film extrusion.

Property	Unit	Value	Test Method
Intrinsic Viscosity	dL/g	0,76 / 0,80 / 0,84 ± 0,02	ISO 1628-5
Acetaldehyde Content	ppm	Max.1	ASTM F-2013-01
Color	L*	Min.90	ASTM D-6290
	b*	Max.(+1)	
Melting Point	°C	°C 246 ± 2	DIN 53765
Moisture Content	%	Max. 0,2	DIN 51777 Part 2 (09/74)
Chip Size	g/100 chips	1,6 ± 0,2	
Fines	ppm	Max. 100	

Technology of Our Resin / Advantages

Pellet Shape / Spherical
Chips Spherical Shape - Chips Cylindrical Shape

No Dust Generation During Conveying

KÖKSAN PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy During Drying / Injection Process

The uniform spherical surface allow for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable.

Uniform IV Within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. in the conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As it is know, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low AA Generation During Drying And Injection Process

The low crystallinity and heat of the resin provides unique advantages of low residual acetaldehyde generation in injection process and also lower energy requirement for bottle production.

Low Dust Content In Resin Pellet

KÖKSAN latest state-of-art MTR with hot cutting technology ensures low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.
Drying Temperatures 160 - 180 °C
Drying Time 4 - 6 hours
Injection Temperatures 260-280 °C

Recommendation

We advise to our customers to use 8 - 12 °C lower temperature and 30 - 60 min lower drying condition compare with the other PET resin which is produced with conventional SSP technology. In addition to drying process, decreasing temperatures around 8 - 12 °C during injection process give better results in our standard injection application.

Handling and Storage

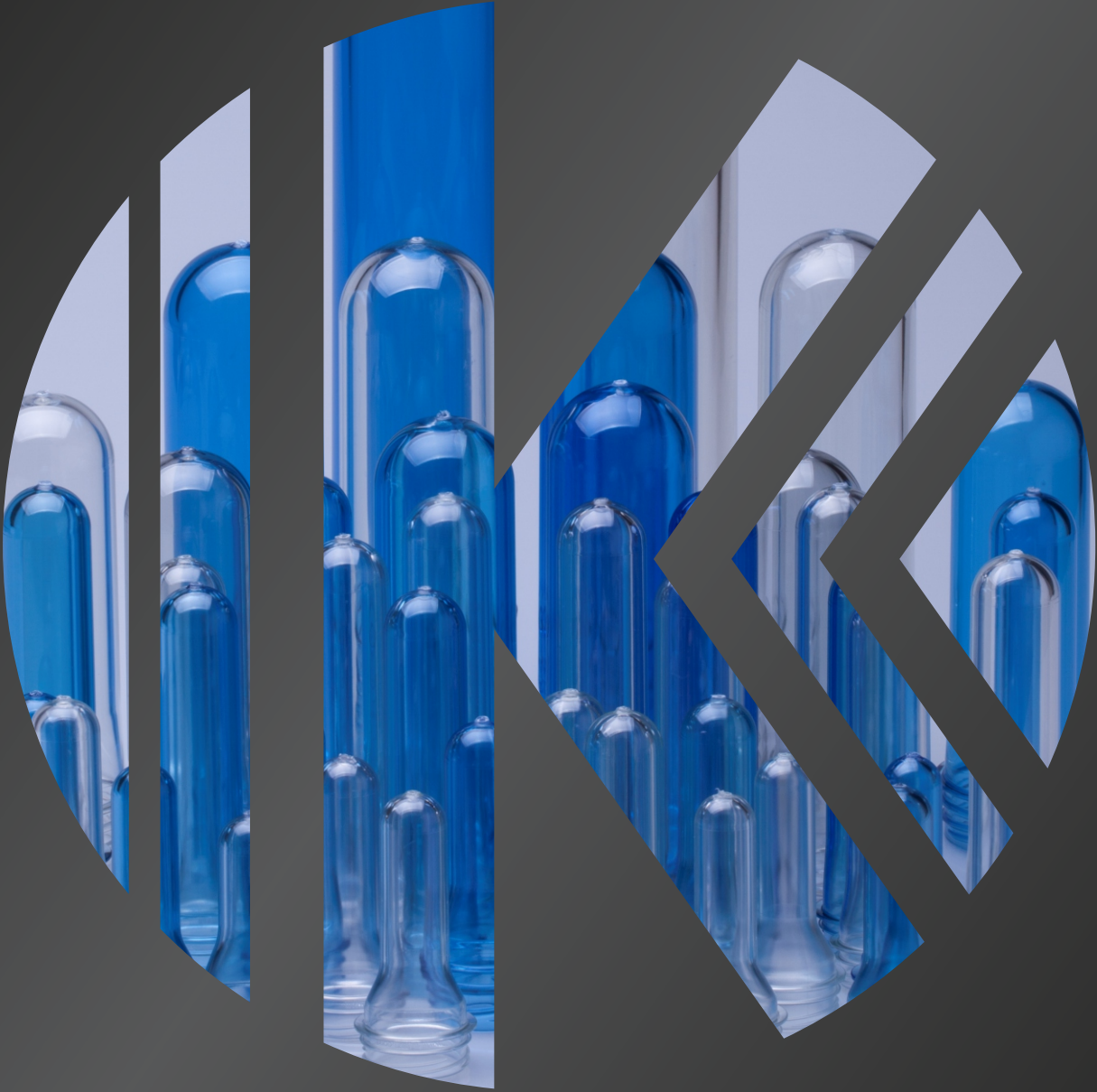
Keep Containers closed.
Store only original containers.
Storage temperature: Ambient
Keep away from ignition sources and flame.
Store cool and dry conditions in sealed container.
Keep away from direct sun light and rain.
Take precaution against static discharge.
Because the friction of particles can produce electricity so, earthing can be installed, if necessary.

Remark

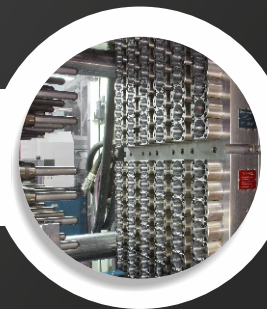
The above results confirm to our specification for type K-076 / K-080 / K-084.
All above mentioned results are based on KÖKSAN PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. KÖKSAN PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. KÖKSAN PET Resin shall not be responsible of the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety. Health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.



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WATER PREFORMS



WATER PREFORMS 29/25 NECK	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
7,5 gr water preform (+/- 2 gr) V1	44	52	32.000	1.408.000	1.664.000
8,9 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
8,9 gr water preform (+/-0,2 gr) V2	44	52	25.344	1.115.136	1.317.888
8,9 gr water preform (+/-0,2 gr) V3	44	52	25.344	1.115.136	1.317.888
8,9 gr water preform (+/-0,2 gr) V4	44	52	25.344	1.115.136	1.317.888
9 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
9 gr water preform (+/-0,2 gr) V2	44	52	25.344	1.115.136	1.317.888
9 gr water preform (+/-0,2 gr) V4	44	52	25.344	1.115.136	1.317.888
9,2 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
9,2 gr water preform (+/-0,2 gr) V2	44	52	25.344	1.115.136	1.317.888
9,75 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
9,75 gr water preform (+/-0,2 gr) V2	44	52	25.344	1.115.136	1.317.888
9,75 gr water preform (+/-0,2 gr) V3	44	52	25.344	1.115.136	1.317.888
10 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
10 gr water preform (+/-0,2 gr) V4	44	52	25.344	1.115.136	1.317.888
10 gr water preform (+/-0,2 gr) V6	44	52	25.344	1.115.136	1.317.888
10 gr water preform (+/-0,2 gr) V9	44	52	25.344	1.115.136	1.317.888
10,5 gr water preform (+/-0,2 gr) V1	44	52	24.048	1.115.136	1.250.496
10,5 gr water preform (+/-0,2 gr) V3	44	52	24.064	1.058.816	1.251.328
10,5 gr water preform (+/-0,2 gr) V4	44	52	25.344	1.115.136	1.317.888
10,5 gr water preform (+/-0,2 gr) V5	44	52	25.344	1.115.136	1.317.888
11,2 gr water preform (+/-0,2 gr) V1	44	52	24.064	1.058.816	1.251.328
11,5 gr water preform (+/-0,2 gr) V2	44	52	21.888	963.072	1.138.176
12 gr water preform (+/-0,2 gr) V2	44	52	21.248	934.912	1.104.896
12,4 gr water preform (+/-0,2 gr) V3	44	52	21.248	934.912	1.104.896
14,3 gr water preform (+/-0,2 gr) V2	44	52	21.248	934.912	1.104.896
20,5 gr water preform (+/-0,2 gr) V1	44	52	12.544	551.936	652.288
20,5 gr water preform (+/-0,2 gr) V2	44	52	12.544	551.936	652.288
22 gr water preform (+/-0,2 gr) V2	44	52	10.944	481.536	569.088
22 gr water preform (+/-0,2 gr) V3	44	52	12.544	551.936	652.288
23 gr water preform (+/-0,2 gr) V1	44	52	10.880	478.720	565.760
24 gr water preform (+/-0,2 gr) V1	44	52	10.752	473.088	559.104
25 gr water preform (+/-0,3 gr) V1	44	52	10.880	478.720	565.760
26,5 gr water preform (+/-0,3 gr) V1	44	52	9.216	405.504	479.232
30 gr water preform (+/-0,3 gr) V1	44	52	9.216	405.504	479.232

WATER PREFORMS 30/25 NECK	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
14 gr water preform (+/-0,2 gr)	44	52	16.640	732.160	865.280
14,9 gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
15,5 gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
16 gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
17,2 gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
21 gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
29 gr water preform (+/-0,3 gr)	44	52	8.928	392.832	464.256
30 gr water preform (+/-0,3 gr)	44	52	8.928	392.832	464.256
31,5 gr water preform (+/-0,3 gr)	44	52	8.208	361.152	426.816
33 gr water preform (+/-0,3 gr)	44	52	8.208	361.152	426.816
39 gr water preform (+/-0,3 gr)	44	52	8.208	361.152	426.816

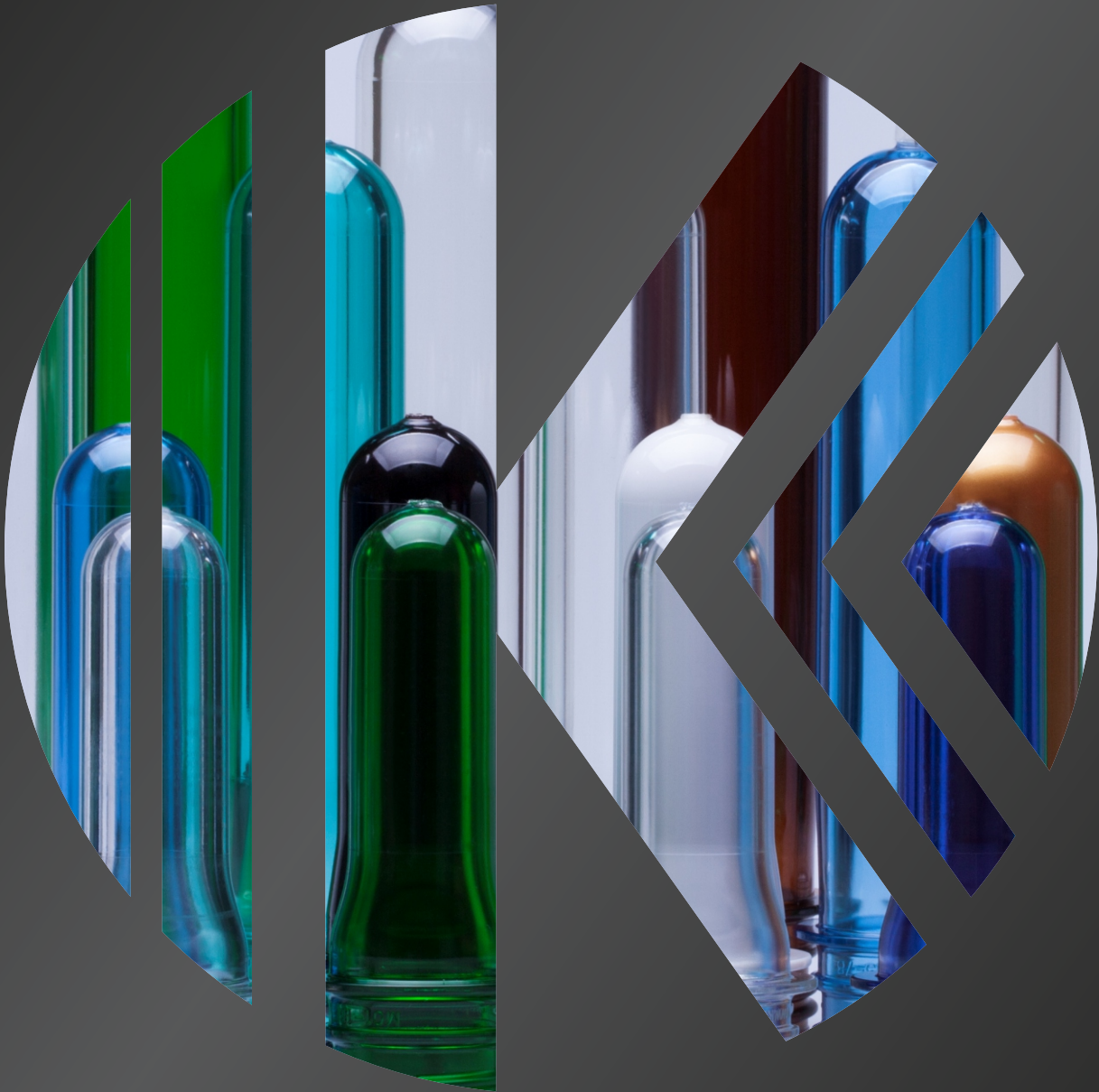
WATER PREFORMS 38/33 NECK	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
52 gr PCO preform (+/-0,6 gr) V1	44	52	4.416	194.304	229.632
52 gr PCO preform (+/-0,6 gr) V2	44	52			
55 gr PCO preform (+/-0,6 gr) V1	44	52	4.032	177.408	209.664
55 gr PCO preform (+/-0,6 gr) V2	44	52	4.032	183.744	217.152
55 gr PCO preform (+/-0,6 gr) V3	44	52	4.032	183.744	217.152
55 gr PCO preform (+/-0,6 gr) V4	44	52	4.032	183.744	217.152
57 gr PCO preform (+/-0,6 gr) V1	44	52	4.032	177.408	209.664
57 gr PCO preform (+/-0,6 gr) V2	44	52	4.032	183.744	217.152
57 gr PCO preform (+/-0,6 gr) V3	44	52	4.032	183.744	217.152
59 gr PCO preform (+/-0,6 gr) V4	44	52	4.032	183.744	217.152
59,5 gr PCO preform (+/-0,6 gr)	44	52	4.032	177.408	209.664
62,5 gr PCO preform (+/-0,6 gr)	44	52	4.032	177.408	209.664
74,4 gr PCO preform (+/-0,7 gr)	44	52	3.672	183.744	190.944
75 gr PCO preform (+/-0,7 gr)	44	52	4.032	183.744	217.152

WATER PREFORMS 48/41 NECK	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
67,5 gr PCO preform (+/-0,7 gr)V1	44	52	3.168	139.392	164.736
67,5 gr PCO preform (+/-0,7 gr) V2	44	52	3.196	140.624	166.192
70 gr PCO preform (+/-0,7 gr)	44	52	3.168	139.392	164.736
75 gr PCO preform (+/-0,8 gr)	44	52	2.848	125.312	148.096
81 gr PCO preform (+/-0,8 gr)	44	52	2.848	125.312	148.096
83 gr PCO preform (+/-0,8 gr)	44	52	2.640	116.160	137.280
84 gr PCO preform (+/-0,8 gr)	44	52	2.848	116.160	137.280
90 gr PCO preform (+/-0,9 gr) V1	44	52	2.848	125.312	148.096
90 gr PCO preform (+/-0,9 gr) V2	44	52	2.640	116.160	137.280
110 gr PCO preform (+/-1,1 gr)	44	52	2.272	99.968	118.144
120 gr PCO preform (+/-1,1 gr)	44	52	2.048	89.760	106.080
120 gr PCO preform (+/-1,1 gr)	44	52	2.048	90.112	106.496
124 gr PCO preform (+/-1,1 gr)	44	52	2.040	89.760	106.080
124 gr PCO preform (+/-1,1 gr)	44	52	2.048	90.112	106.496
130 gr PCO preform (+/-1,1 gr)	44	52	2.040	89.760	106.080
130 gr PCO preform (+/-1,1 gr)	44	52	2.048	90.112	106.496

SNAP ON 55 MM NECK 5 GALLON	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
285 gr PCO preform (+/-3 gr)	88	104	728	64.064	75.712
300 gr PCO preform (+/-3 gr) V1	88	104	728	64.064	75.712
300 gr PCO preform (+/-3 gr) V2	88	104	728	64.064	75.712
330 gr PCO preform (+/-3 gr)	88	104	728	64.064	75.712
350 gr PCO preform (+/-3 gr)	88	104	728	64.064	75.712
668 gr PCO preform (+/- 7 gr)	Based on tonnage	Based on tonnage	441		
677 gr PCO preform (+/- 7 gr)	Based on tonnage	Based on tonnage	441		
680 gr PCO preform (+/- 7 gr)	Based on tonnage	Based on tonnage	441		
708 gr PCO preform (+/- 7 gr)	Based on tonnage	Based on tonnage	441		
717 gr PCO preform (+/- 7 gr)	Based on tonnage	Based on tonnage	441		
720 gr PCO preform (+/- 7 gr)	Based on tonnage	Based on tonnage	441		



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CARBONATED SOFT DRINKS (CSD) PREFORMS



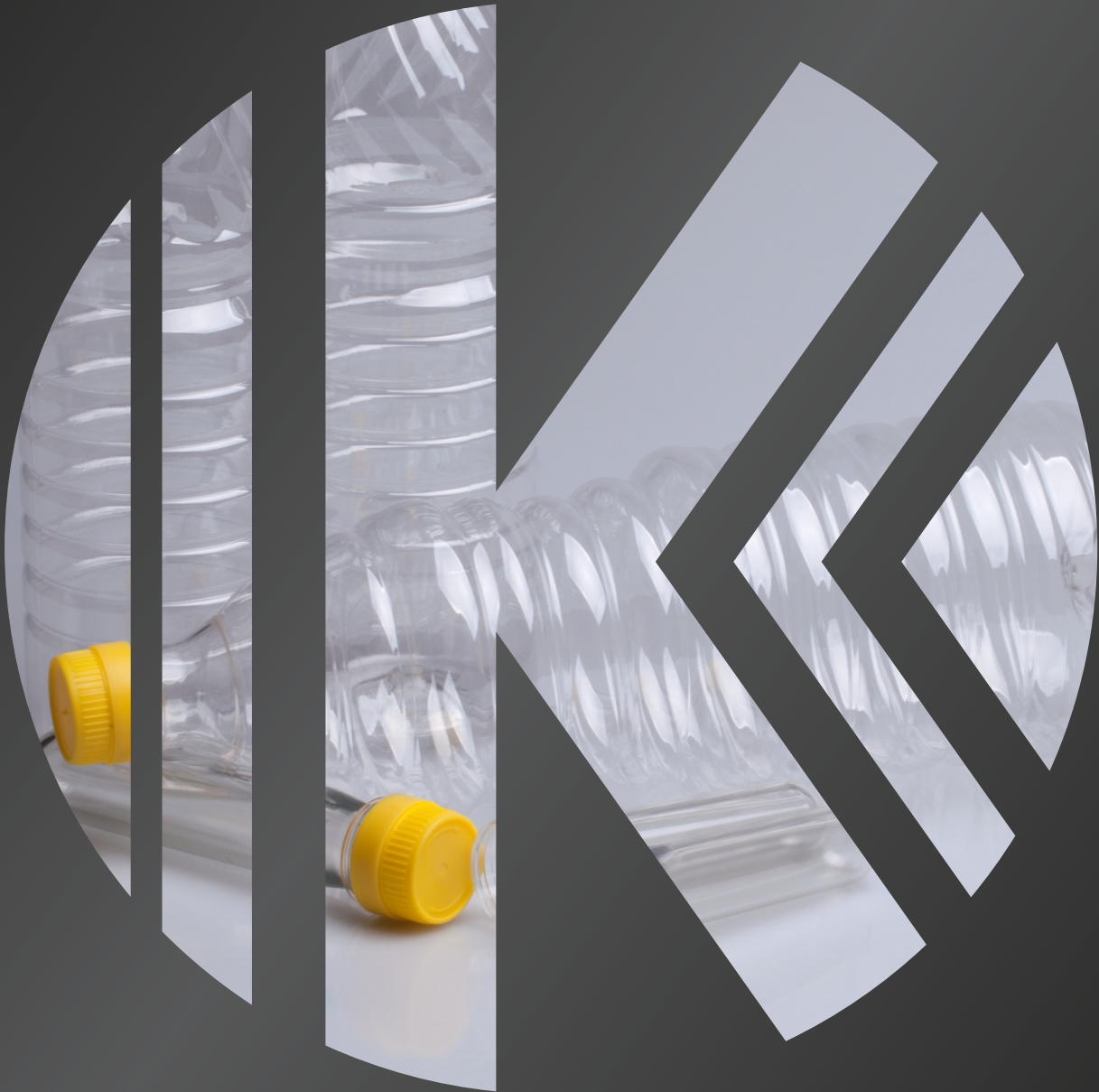
PCO 1881 NECK CSD PREFORMS (28 MM)	PALLETS IN 40HC	PALLET INTRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY INTRUCK
12 gr PCO preform (+/- 0,2 gr) V1	44	52	21.120	929.280	1.098.240
12 gr PCO preform (+/- 0,2 gr) V2	44	52	21.120	929.280	1.098.240
12 gr PCO preform (+/- 0,2 gr) V3	44	52	21.120	929.280	1.098.240
12 gr PCO preform (+/- 0,2 gr) V4	44	52	22.400	985.600	1.164.800
12,4 gr PCO preform (+/- 0,2 gr) V1	44	52	22.400	985.600	1.164.800
13 gr PCO preform (+/- 0,2 gr) V1	44	52	21.120	929.280	1.098.240
13 gr PCO preform (+/- 0,2 gr) V2	44	52	21.120	929.280	1.098.240
14,5 gr PCO preform (+/- 0,2 gr) V1	44	52	21.120	929.280	1.098.240
14,5 gr PCO preform (+/- 0,2 gr) V2	44	52	21.120	929.280	1.098.240
16 gr PCO preform (+/- 0,2 gr) V1	44	52	16.640	732.160	865.280
16 gr PCO preform (+/- 0,2 gr) V2	44	52	21.120	929.280	1.098.240
16 gr PCO preform (+/- 0,2 gr) V3	44	52	21.120	929.280	1.098.240
18,4 gr PCO preform (+/- 0,2 gr) V1	44	52	15.744	692.736	818.688
18,4 gr PCO preform (+/- 0,2 gr) V2	44	52	15.744	692.736	818.688
20 gr PCO preform (+/- 0,2 gr) V1	44	52	16.640	732.160	865.280
20 gr PCO preform (+/- 0,2 gr) V2	44	52	16.640	732.160	865.280
21 gr PCO preform (+/- 0,2 gr)	44	52	15.744	692.736	818.688
22,3 gr PCO preform (+/- 0,2 gr) V1	44	52	15.744	692.736	818.688
22,3 gr PCO preform (+/- 0,2 gr) V2	44	52	16.256	715.264	845.312
22,3 gr PCO preform (+/- 0,2 gr) V3	44	52	15.744	692.736	818.688
22,3 gr PCO preform (+/- 0,2 gr) V4	44	52	15.744	715.264	818.688
23,2 gr PCO preform (+/- 0,2 gr)	44	52	16.640	732.160	865.280
24,65 gr PCO preform (+/- 0,3 gr)	44	52	15.744	692.736	818.688
25,6 gr PCO preform (+/- 0,3 gr)	44	52	15.744	692.736	818.688
29 gr PCO preform (+/- 0,3 gr)	44	52	9.696	426.624	504.192
32 gr PCO preform (+/- 0,3 gr) V1	44	52	9.696	426.624	504.192
32 gr PCO preform (+/- 0,3 gr) V2	44	52	9.696	426.624	504.192
35 gr PCO preform (+/- 0,4 gr)	44	52	9.696	426.624	504.192
37,4 gr PCO preform (+/- 0,4 gr)	44	52	8.704	382.976	452.608
38,5 gr PCO preform (+/- 0,4 gr)	44	52	8.704	382.976	452.608
40 gr PCO preform(+/- 0,4 gr)	44	52	8.704	382.976	452.608
42,2 gr PCO preform (+/- 0,4 gr)	44	52	8.704	382.976	452.608
46 gr PCO preform (+/- 0,5 gr)	44	52	7.008	308.352	364.416
50 gr PCO preform (+/- 0,5 gr)	44	52	7.008	308.352	364.416
52 gr PCO preform (+/- 0,5 gr)	44	52	7.008	308.352	364.416

PCO 1810 NECK CSD PREFORMS (28 MM)	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
15 gr PCO preform (+/- 0,2 gr)	44	52	17.952	789.888	933.504
17 gr PCO preform (+/- 0,2 gr)	44	52	17.952	789.888	933.504
17,1 gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
17,5 gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
18,5 gr PCO preform (+/- 0,2 gr)	44	52	15.104	664.576	785.408
19 gr PCO preform (+/- 0,4 gr)	44	52	14.496	637.824	753.792
19,7 gr PCO preform (+/- 0,2 gr)	44	52	15.104	664.576	785.408
20 gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
21 gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
22,5 gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
25 gr PCO preform (+/- 0,3 gr) V1	44	52	14.496	637.824	753.792
25 gr PCO preform (+/- 0,3 gr) V2	44	52	15.104	664.576	785.408
27 gr PCO preform (+/- 0,3 gr)	44	52	14.496	637.824	753.792
32 gr PCO preform (+/- 0,3 gr) V2	44	52	8.352	367.488	434.304
32,2 gr PCO preform (+/- 0,3 gr)	44	52	8.352	367.488	434.304
35 gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
36 gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
40,5 gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
42 gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
44 gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
48 gr PCO preform (+/- 0,5 gr)	44	52	6.848	301.312	356.096
52 gr PCO preform (+/- 0,5 gr)	44	52	6.464	284.416	336.128
54 gr PCO preform (+/- 0,5 gr)	44	52	6.464	284.416	336.128





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EDIBLE OIL PREFORMS



SNAP ON EDIBLE OIL PREFORMS 29/21 NECK (28MM)	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
21 gr S.ON preform (+/- 0,2 gr) V2	44	52	13.184	580.096	685.568
26,5 gr S.ON preform (+/- 0,3 gr)	44	52	11.904	523.776	619.008
49 gr S.ON preform (+/- 0,5 gr)	44	52	7.680	337.920	399.360

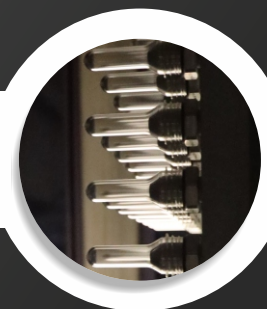
SNAP ON EDIBLE OIL PREFORMS 35/27 NECK (32MM)	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
22,5 gr S.ON preform (+/- 0,2 gr) V2	44	52	10.368	456.192	539.136
23 gr S.ON preform (+/- 0,2 gr) V1	44	52	10.368	456.192	539.136
25 gr S.ON preform (+/- 0,3 gr) V1	44	52	10.368	456.192	539.136
25 gr S.ON preform (+/- 0,3 gr) V2	44	52	10.368	456.192	539.136
26 gr S.ON preform (+/- 0,3 gr) V1	44	52	10.368	456.192	539.136
26 gr S.ON preform (+/- 0,3 gr) V2	44	52	10.368	456.192	539.136
27 gr S.ON preform (+/- 0,3 gr) V1	44	52	10.368	456.192	539.136
29 gr S.ON preform (+/- 0,3 gr) V1	44	52	10.368	456.192	539.136
49 gr S.ON preform (+/- 0,5 gr) V1	44	52	7.040	309.760	366.080



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HOTFILL & OTHER PREFORMS



HOTFILL PREFORMS (33 MM)	PALLETS IN 40HC	PALLET INTRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY INTRUCK
15 gr H.F2 preform (+/- 0,2 gr)	44	52	18.240	802.560	948.480
17 gr H.F2 preform (+/- 0,2 gr)	44	52	18.240	802.560	948.480
27 gr H.F2 preform (+/- 0,3 gr)	44	52	10.272	451.968	534.144
29,5 gr H.F2 preform (+/- 0,3 gr)	44	52	10.272	451.968	534.144
40 gr H.F2 preform (+/- 0,4 gr)	44	52	7.680	337.920	399.360
42 gr H.F2 preform (+/- 0,4 gr)	44	52	7.680	337.920	399.360

HOTFILL PREFORMS (37 MM)	PALLETS IN 40HC	PALLET INTRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY INTRUCK
57 gr H.F2 preform (+/- 0,6 gr)	44	52	6.240	274.560	324.480
80 gr H.F2 preform (+/- 0,8 gr)	44	52	4.176	183.744	217.152

PCF 26P-2	PALLETS IN 40HC	PALLET INTRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY INTRUCK
16,5 gr PCF 26P-2 (+/- 0,2 gr)	44	52	15.744	692.736	818.688



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CLOSURES FOR WATER APPLICATION



	NECK FINISH 29/25 (72 KNURL) WATER CLOSURES	NECK FINISH 29/25 (120 KNURL) WATER CLOSURES	NECK FINISH 29/25 (72 KNURL) CONICAL WATER CLOSURES
PHYSICAL PROPERTIES	Inner Diameter: 28.3 mm	Inner Diameter: 28.3 mm	Inner Diameter: 28.25 mm
	Outer Diameter: 31.05 mm	Outer Diameter: 31.05 mm	Outer Diameter: 31.2 mm
	Height: 11.4 mm	Height: 11.4 mm	Height: 11.4 mm
	Weight: 1.24 gr	Weight: 1.26 gr	Weight: 1.35 gr
	Quantity in Box: 7000 pcs	Quantity in Box: 7000 pcs	Quantity in Box: 6000 pcs
	Roof thickness: 0.55 mm	Roof thickness: 0.55 mm	Roof thickness: 0.65 mm
RAW MATERIAL	HDPE	HDPE	HDPE
LINER	Without Liner	Without Liner	Without Liner
PREPARATION BEFORE USE	Max 5°C degree temperature difference allowance between caps and production environment.	Max 5°C degree temperature difference allowance between caps and production environment.	Max 5°C degree temperature difference allowance between caps and production environment.
COLOR	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.
LOGO COMPANY IMAGE	Company logo-printed on to top or a tailor-made engraved design could be provided upon request.	Company logo-printed on to top or a tailor-made engraved design could be provided upon request.	Company logo-printed on to top or a tailor-made engraved design could be provided upon request.
APPLICATIONS	29/25 Neck diameter plastic bottles.	29/25 Neck diameter plastic bottles.	29/25 Neck diameter plastic bottles.
CLOSURE TYPE	1-piece screw cap	1-piece screw cap	1-piece screw cap
PRODUCTION METHOD	Injection molding	Injection molding	Compression molding (Coke Approved)
FILLING TECHNOLOGY	Cold filling	Cold filling	Cold filling
MARKET SEGMENT	Still mineral water	Still mineral water	Still mineral water
PACKAGING	(595 * 385 * 393 mm) packed in cardboard boxes. There are 7000 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 7000 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 6000 pieces in the box.
LOADING	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes
	Truck without pallet (bulk): 950-box	Truck without pallet (bulk): 950-box	Truck without pallet (bulk): 950-box
	Container with pallet: 660 boxes	Container with pallet: 660 boxes	Container with pallet: 660 boxes
	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes
BOX WEIGHT	Net: 8680 gr, Gross: 9880 gr	Net: 8820 gr, Gross: 10020 gr	Net: 8100 gr, Gross: 9300 gr
STORAGE CONDITION	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.
TAMPER EVIDENCE	DropTE band	DropTE band	SlitTE band

	NECK FINISH 29/25 (72 KNURL) CONICAL WATER CLOSURES	NECK FINISH 29/25 (72 KNURL) CONICAL WATER CLOSURES	NECK FINISH 30/25 (90 KNURL) WATER CLOSURES	NECK FINISH 55mm, 5-Gallon (19lt) SNAP ON (HOD) BOTTLED WATER CLOSURES
PHYSICAL PROPERTIES	Inner Diameter: 28.25 mm	Inner Diameter: 28.30 mm	Inner Diameter: 28.8 mm	
	Outer Diameter: 31.2 mm	Outer Diameter: 31 mm	Outer Diameter: 32.05 mm	Outer Diameter: 56.9 mm
	Height: 11.4 mm	Height: 11.3 mm	Height: 16.4 mm	Height: 34 mm (54.9 with handle)
	Weight: 1.27 gr	Weight: 1.25 gr	Weight: 1.68 gr	Weight: 8.25 gr
	Quantity in Box: 6000 pcs	Quantity in Box: 6000 pcs	Quantity in Box: 4300 pcs	Quantity in Box: 600 pcs
	Roof thickness: 0.55 mm	Roof thickness: 0.55 mm	Roof thickness: 0.6 mm	Roof thickness: 0,9 mm
RAW MATERIAL	HDPE	HDPE	HDPE	LDPE
LINER	Without Liner	Without Liner	Without Liner	Without Liner
PREPARATION BEFORE USE	Max 5°C degree temperature difference allowance between caps and production environment.	Max 5°C degree temperature difference allowance between caps and production environment.	Max 5°C degree temperature difference allowance between caps and production environment.	Max 5°C degree temperature difference allowance between caps and production environment.
COLOR	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.
LOGO COMPANY IMAGE	Company logo-printed on to top or a tailor-made engraved design could be provided upon request.	Company logo-printed on to top or a tailor-made engraved design could be provided upon request.	Engraving or embossing logo design.	Engraving or embossing logo design.
APPLICATIONS	29/25 Neck diameter plastic bottles.	29/25 Neck diameter plastic bottles.	30/25 Neck diameter plastic bottles.	5-Gallon, 55mm Neck diameter plastic bottles PET/PC app.
CLOSURE TYPE	1-piece screw cap	1-piece screw cap	1-piece screw cap	1-piece snap on cap / easy open
PRODUCTION METHOD	Compression molding (Coke Approved)	Compression molding (Coke Approved)	Injection molding	Injection molding
FILLING TECHNOLOGY	Cold filling	Cold filling	Cold filling	Cold filling
MARKET SEGMENT	Still mineral water	Still mineral water	Still mineral water	Bottled water
PACKAGING	(595 * 385 * 393 mm) packed in cardboard boxes. There are 6000 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 6000 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 4300 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 600 pieces in the box.
LOADING	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes
	Truck without pallet (bulk): 950-box	Truck without pallet (bulk): 950-box	Truck without pallet (bulk): 950-box	Truck without pallet (bulk): 950-box
	Container with pallet: 660 boxes	Container with pallet: 660 boxes	Container with pallet: 660 boxes	Container with pallet: 660 boxes
	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes
BOX WEIGHT	Net: 7620 gr, Gross: 8820 gr	Net: 7500 gr, Gross: 8700 gr	Net: 7225 gr, Gross: 8425 gr	Net: 4950 gr, Gross: 6150 gr
STORAGE CONDITION	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.
TAMPER EVIDENCE	SlitTE band	SlitTE band	DropTE band	Tear-off

	NECK FINISH 55mm, 5-Gallon (19lt) SNAP ON (HOD) BOTTLED WATER CLOSURES	NECK FINISH 38mm (90 KNURL) CONICAL WATER CLOSURES	NECK FINISH 48mm (120 KNURL) CONICAL WATER CLOSURES
PHYSICAL PROPERTIES	Inner Diameter: 56.9 mm	Inner Diameter: 36.4 mm	Inner Diameter: 45.85 mm
	Outer Diameter: 56.9 mm	Outer Diameter: 40.9 mm	Outer Diameter: 49.9 mm
	Height: 32 mm (52,9 with handle)	Height: 14.6 mm	Height: 17.1 mm
	Weight: 7.6 gr	Weight: 2.6 gr	Weight: 4.6 gr
	Quantity in Box: 700 pcs	Quantity in Box: 3000 pcs	Quantity in Box: 1700 pcs
	Roof thickness: 0.90 mm	Roof thickness: 0.75 mm	Roof thickness: 0.90 mm
RAW MATERIAL	LDPE	HDPE	HDPE
LINER	Without Liner	Without Liner	Without Liner
PREPARATION BEFORE USE	Max 5°C degree temperature difference allowance between caps and production environment.	Max 5°C degree temperature difference allowance between caps and production environment.	Max 5°C degree temperature difference allowance between caps and production environment.
COLOR	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.	There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings.
LOGO COMPANY IMAGE	Engraving or embossing logo design.	Engraving or embossing logo design.	Engraving or embossing logo design.
APPLICATIONS	5-Gallon, 55mm Neck diameter plastic bottles PET/PC app.	38mm Neck diameter plastic bottles.	48mm Neck diameter plastic bottles.
CLOSURE TYPE	1-piece snap on cap / easy open	1-piece screw cap	1-piece screw cap
PRODUCTION METHOD	Injection molding	Compression molding (Coke Approved)	Compression molding
FILLING TECHNOLOGY	Cold filling	Cold filling and Cold adeptic filling	Cold filling and Cold adeptic filling
MARKET SEGMENT	Bottled water	Still mineral water	Still mineral water
PACKAGING	(595 * 385 * 393 mm) packed in cardboard boxes. There are 700 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 3000 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 3000 pieces in the box.
LOADING	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes
	Truck without pallet (bulk): 950-box	Truck without pallet (bulk): 950-box	Truck without pallet (bulk): 950-box
	Container with pallet: 660 boxes	Container with pallet: 660 boxes	Container with pallet: 660 boxes
	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes
BOX WEIGHT	Net: 5320 gr, Gross: 6520 gr	Net: 7800 gr, Gross: 9000 gr	Net: 7820gr, Gross: 9020 gr
STORAGE CONDITION	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.
TAMPER EVIDENCE	Tear-off	SlitTE band	SlitTE band



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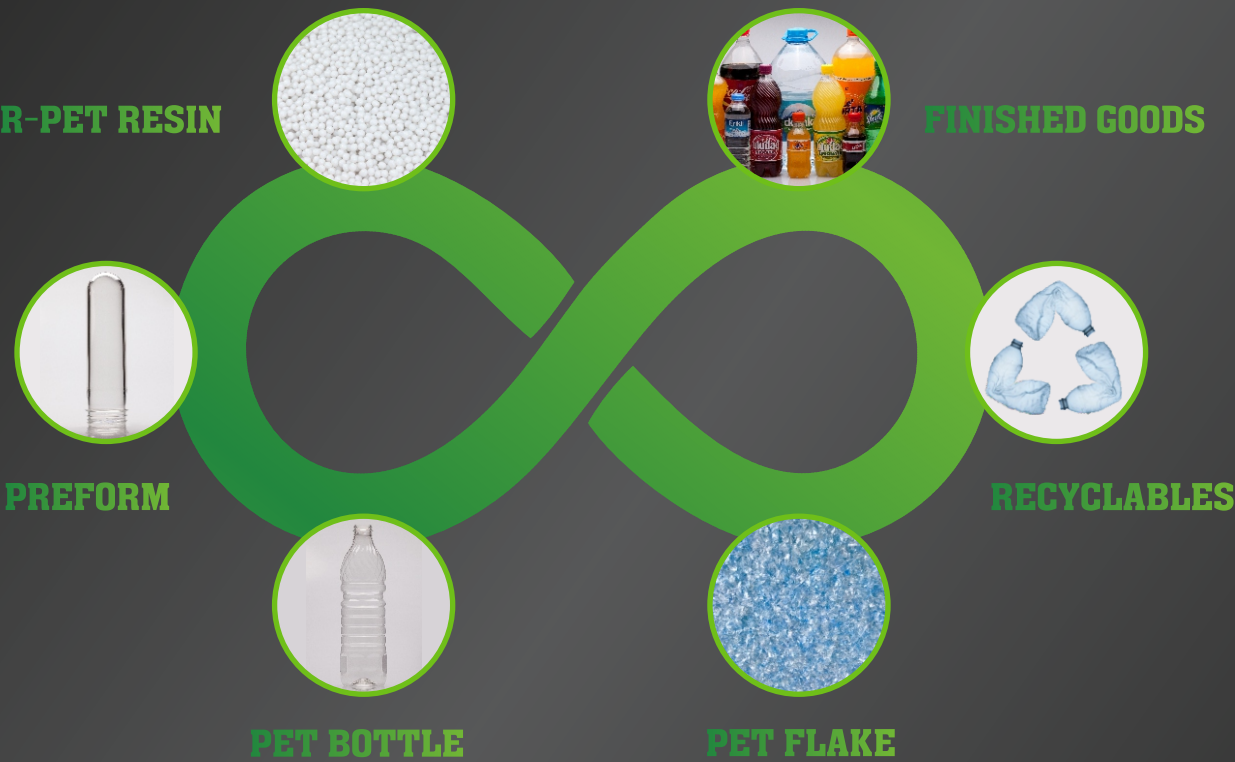


CLOSURES FOR CSD / HOTFILL / EDIBLE OIL APP



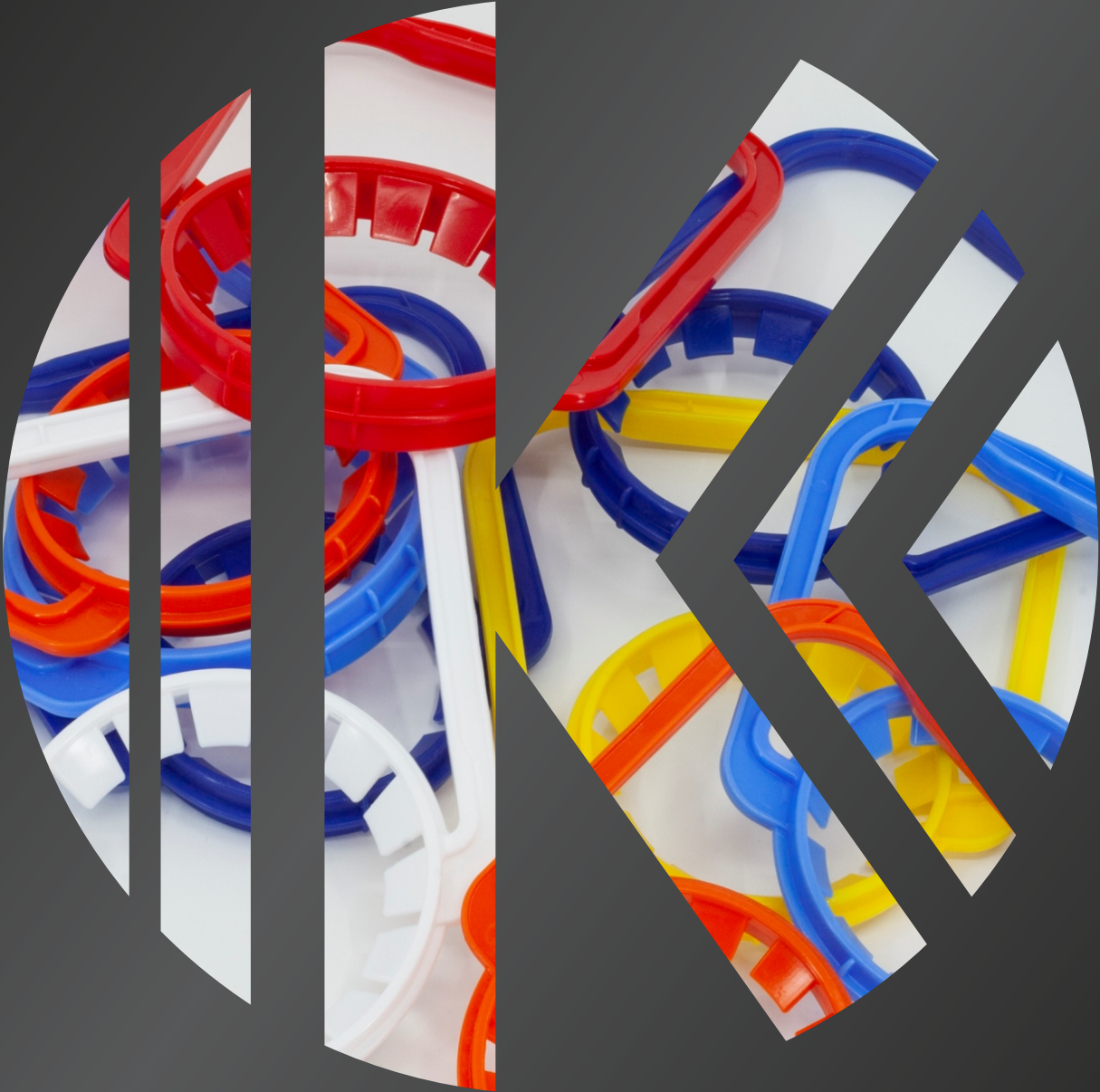
	PCO 1810 (120 KNURL) CSD CLOSURES	PCO 1881 (120 KNURL) CSD CLOSURES	PCO 1881 (120 KNURL) CSD CLOSURES	PCO 1881 (120 KNURL) CSD CLOSURES
PHYSICAL PROPERTIES	Inner Diameter: 25.8 mm	Inner Diameter: 25.7 mm	Inner Diameter: 25.7 mm	Inner Diameter: 25.7 mm
	Outer Diameter: 30.00 mm	Outer Diameter: 30.05 mm	Outer Diameter: 30.05 mm	Outer Diameter: 30.05 mm
	Height: 19.85 mm	Height: 15.90 mm	Height: 15.70 mm	Height: 15.55 mm
	Weight: 2.9 gr	Weight: 2.37 gr	Weight: 2.3 gr	Weight: 2.15 gr
	Quantity in Box: 4100 pcs	Quantity in Box: 5600 pcs	Quantity in Box: 5600 pcs	Quantity in Box: 5600 pcs
	Roof thickness: 1.4 mm	Roof thickness: 1.4 mm	Roof thickness: 1.25 mm	Roof thickness: 1.05 mm
RAW MATERIAL	HDPE	HDPE	HDPE	HDPE
LINER	Without Liner	Without Liner	Without Liner	Without Liner
PREPARATION BEFORE USE	Max 5°C degree temperature difference allowance between caps and production environment	Max 5°C degree temperature difference allowance between caps and production environment	Max 5°C degree temperature difference allowance between caps and production environment	Max 5°C degree temperature difference allowance between caps and production environment
COLOR	Customer special colors can be made upon request after the trials and laboratory testings	Customer special colors can be made upon request after the trials and laboratory testings	Customer special colors can be made upon request after the trials and laboratory testings	Customer special colors can be made upon request after the trials and laboratory testings
LOGO COMPANY IMAGE	Can make max. 3 color printing on top of the cap	Can make max. 3 color printing on top of the cap	Can make max. 3 color printing on top of the cap	Can make max. 3 color printing on top of the cap
APPLICATIONS	1810 PCO Neck diameter plastic bottles	1881 PCO Neck diameter plastic bottles	1881 PCO Neck diameter plastic bottles	1881 PCO Neck diameter plastic bottles
CLOSURE TYPE	1-piece screw cap	1-piece screw cap	1-piece screw cap	1-piece screw cap
PRODUCTION METHOD	Injection molding	Injection molding (Coke approved)	Injection molding (Coke approved)	Injection molding
FILLING TECHNOLOGY	Cold filling	Cold filling	Cold filling	Cold filling
MARKET SEGMENT	CSD, Nectars, Fruit juices, Still/Sparkling mineral water	CSD, Nectars, Fruit juices, Still/Sparkling mineral water	CSD, Nectars, Fruit juices, Still/Sparkling mineral water	CSD, Nectars, Fruit juices, Still/Sparkling mineral water
PACKAGING	(595 * 385 * 393 mm) packed in cardboard boxes. There are 4100 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 5600 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 5600 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 5600 pieces in the box.
LOADING	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes
	Truck without pallet (bulk): 950 box	Truck without pallet (bulk): 950 box	Truck without pallet (bulk): 950 box	Truck without pallet (bulk): 950 box
	Container with pallet: 660 boxes	Container with pallet: 660 boxes	Container with pallet: 660 boxes	Container with pallet: 660 boxes
	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes
BOX WEIGHT	Net: 11900 gr, Gross: 13100 gr	Net: 13270 gr, Gross: 14470 gr	Net: 12880 gr, Gross: 14080 gr	Net: 12040 gr, Gross: 13240 gr
STORAGE CONDITION	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.
TAMPER EVIDENCE	DropTE band	DropTE band	DropTE band	DropTE band

	NECK FINISH 33/15 HF2 HOTFILL CLOSURES (120 KNURL)	NECK FINISH 29/21 EDIBLE OIL SNAP ON CLOSURES
PHYSICAL PROPERTIES	Inner Diameter: 30.5 mm	Inner Diameter: 27.8 mm
	Outer Diameter: 34.6 mm	Outer Diameter: 30.1 mm
	Height: 14.50 mm	Height: 12.90 mm
	Weight: 2.50 gr	Weight: 1.75 gr
	Quantity in Box: 4000 pcs	Quantity in Box: 5500 pcs
	Roof thickness: 1.00 mm	Roof thickness: 1.00 mm
RAW MATERIAL	HDPE	LDPE
LINER	Without Liner	Without Liner
PREPARATION BEFORE USE	Max 5°C degree temperature difference allowance between caps and production environment.	Max 5°C degree temperature difference allowance between caps and production environment.
COLOR	Customer special colors can be made upon request after the trials and laboratory testings.	Customer special colors can be made upon request after the trials and laboratory testings.
LOGO COMPANY IMAGE	Engraving or embossing logo design.	Generally unusable
APPLICATIONS	33/15 HF2 Neck diameter plastic bottles.	29/21 Neck oil bottles.
CLOSURE TYPE	1-piece screw cap	1-piece snap on cap
PRODUCTION METHOD	Compression (Coke Approved)	Injection molding
FILLING TECHNOLOGY	Hot filling / Cold filling	Cold filling
MARKET SEGMENT	Ice Tea, Fruit Juice, Turnip Juice	Edible Oil
PACKAGING	(595 * 385 * 393 mm) packed in cardboard boxes. There are 4000 pieces in the box.	(595 * 385 * 393 mm) packed in cardboard boxes. There are 5500 pieces in the box.
LOADING	Truck with pallet: 520 boxes	Truck with pallet: 780 boxes Container with pallet: 660 boxes
	Container with pallet: 440 boxes	Truck without pallet (bulk): 950 box Container without pallet (bulk): 750 boxes
BOX WEIGHT	Net: 10000 gr, Gross: 11200 gr	Net: 9625 gr, Gross: 10825 gr
STORAGE CONDITION	Should be stored at room temperature with not more than 20 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.
TAMPER EVIDENCE	Slit TE band	Tear Band





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PE - HANDLE



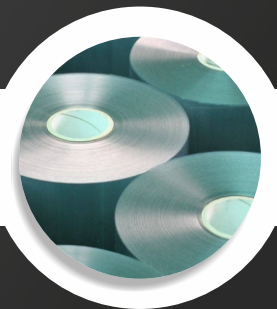
	38 MM HANDLE	48 MM HANDLE
PHYSICAL PROPERTIES	Outer Dimensions: 87 mm x 82.5 mm	Outer Dimensions: 99.9 mm x 84.5 mm
	Thickness: 8.8 mm	Thickness: 10.4 mm
	Weight: 4.8 gr	Weight: 6.6 gr
	Quantity in Box: 1100 pcs	Quantity in Box: 850 pcs
RAW MATERIAL	HDPE	HDPE
PREPARATION BEFORE USE	Max 5°C degree temperature difference allowance between caps and production environment.	Max 5°C degree temperature difference allowance between caps and production environment.
COLOR	Transparent and colored handles are available	Transparent and colored handles are available
APPLICATIONS	38mm Neck Diameter Plastic Bottles.	48mm Neck Diameter Plastic Bottles.
PRODUCTION METHOD	Injection molding	Injection molding
PACKAGING	(595*385*393) packed in cardboard boxes. There are 1100 pieces in the box.	(595*385*393) packed in cardboard boxes. There are 850 pieces in the box.
LOADING	Truck with pallet: 780 boxes	Truck with pallet: 780 boxes
	Truck without pallet (bulk): 950 box	Truck without pallet (bulk): 950 box
	Container with pallet: 660 boxes	Container with pallet: 660 boxes
	Container without pallet (bulk): 750 boxes	Container without pallet (bulk): 750 boxes
BOX WEIGHT	Net: 5280 gr, Gross: 6355 gr	Net: 5610 gr, Gross: 6685 gr
STORAGE CONDITION	Should be stored at room temperature with not more than 30 Boxes on each pallet.	Should be stored at room temperature with not more than 30 Boxes on each pallet.



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PET SHEET



PET SHEET (ROLL)

RAW MATERIAL	PET (R-PET, A-PET,FLAKE, RE-GRINDING PET SHEET)
TICKNESS	150µm - 1500µm
WIDTH	200 mm - 1450 mm
LAMINATION OPTIONS	PE / EVOH / EVAHTHERMAL FILMS
DENSITY	1.33 gr/cm³
OXYGEN PERMEABILITY	1.1735 ml/m² day in room temprature.
TRANSPARENCY	88%
CORE DIMENSIONS	3"- 6"
PRODUCTION METHOD	Co-Extrusion, 3-Layer (A-B-A), Lamination.
COLOR OPTIONS	Clear, Black, White, Brown, Purple, Red, Yellow, Blue, Grey, Green.
SURFACE APPLICATIONS	Anti-Static, Anti Block, Antifog.
FOOD CONTACT	Full compliance with food contact regulations (FDA and EU).
CHEMICAL SPECIFICATIONS	Resistant to the acids. Not recommended for use with high alkalized solutions.
THERMOFORMING TEMPERATURE	(120 - 160 °C), forming in cooled mold.
ENVIRONMENTAL RESPONSIBILITY	In full regulations with EU standards.
PACKING OPTIONS	EAN or Barcode printing options available.



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PET PACKAGING INDUSTRY CO.



STRETCH FILMS



Stretch films produced with the latest technology keeping products together safely during the transportation or storage. They protect products from external affects such as dust, water, dirt and damage. We believe it is the best and most economical solution to protect your palletized products from damage by ensuring that the products stay together during storage and transportation.

We believe they are the best and most economical solution to protect your palletized products from any kind of damage by ensuring that the products intact during the storage and the transportation.

Our product portfolio; High Performance (Super Power) Stretch Films, Machine Type Stretch Films, Hand Type Stretch Films, Jumbo Type Stretch Films, Food Grade (Cling) Films, Pre-Stretch Films, Silage Films and Colored Stretch Films, Bubble Wraps, PE Films, Shrink Films, Shrink Hood.

Suitable for manual and automatic operational practices.

Produced by 5 and 7 layers cast film technology.

Single or double sided cling.

Inside or outside is slipper.

Resistant to puncture or tear.

Transparent and shiny.

Recyclable.

Can be produced in different colors.

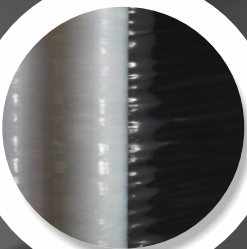
Can be stretched up to 350% in automatic winding machines.

Due to its light weight, it is convenient during the transportation.

Economical, saves labor and time.

Due to its tackiness, no need for the additional adhesive process.

Wraps sharp edges without tearing.

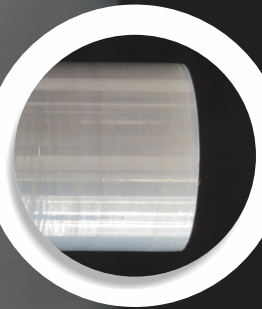


WHY STRETCH FILMS?

It is used in manual wrapping of crawler products.
They are produced in the range of 8 to 50 microns with 5 and 7 layer cast film technology.
Packed in 3 pcs or 6 pcs or 8 pcs in carton boxes.
They are produced in different specks and colors according to customer demands.
Wraps sharp edges without tearing, they are flexible and strong. It is not affected by rain.
The most economical solution for packaging. Provides great savings from labor and time.
Resists from 5 C to 50 C heat under normal conditions.
Complies with international standards.

ProductType	Specs	Thickness (Mic)	Stretch Factor	Width (cm)	Length (Mt)	Roll Weight	Number of Rolls/Box	Number of Boxes/Pallet
HandType	Light	8 / 50 Micron	150%	10 - 60	100 - 600	2-6 Kg/Roll	3-6-8 Roll	40
	Standart		200%					60
			250%					
			Heavy					300%

HAND TYPE STRETCH FILMS



Can be stretched up to 300% on automatic winding machines.

Resists from 5 °C to 50 °C heat under normal conditions.

Wraps sharp edges without tearing, they are flexible and strong. It is not affected by rain.

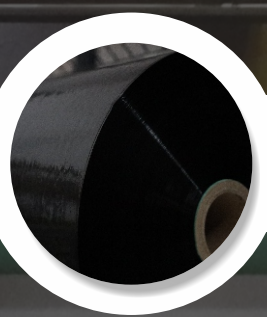
Standard thickness dimension is; 17, 20 and 23.

They are produced with 5 and 7 layers cast film technology.

They can be packed in boxes or pallets.

They are produced in different specks and colors according to customer demands.

ProductType	Specs	Thickness (Mic)	Stretch Factor	Width (cm)	Length (Mt)	Weight	Number of Boxes/Pallet
Standart	Light Standart Heavy	8 / 50 Micron	150%	10 - 150	500 - 4000	Maximum 56 Kg/Roll	12 - 16
Power			200%				24 - 30
			250%				30 - 40
			46 - 60				
Super Power			300% - 350%				69
		80					



MACHINE TYPE STRETCH FILMS

Resists from 5 C to 50 C heat under normal conditions.

Can be stretched up to 350% on semi or fully automatic winding machines.

Wraps sharp edges without tearing, they are flexible and strong. It is not affected by rain.

Available in thickness starting from 12 microns and various widths. (400 mm, 450 mm, 500 mm, 750 mm, 1500 mm.)

Product Type	Specs	Thickness (Mic)	Stretch Factor	Width (cm)	Length (Mt)	Weight	Number of Boxes/Pallet
Super Power	Light	8 / 50 Micron	250%	10 - 150	500 - 4000	10-56 kg/roll 400 mm	15 - 30
	Standart		300%				40 - 46
	Heavy		350%				60 - 69
							80

HIGH PERFORMANCE (SUPER POWER) STRETCH FILMS



Available in thickness starting from 8 microns and various widths. (400 mm, 450 mm, 500 mm, 750 mm, 1500 mm.)

Can be stretched up to 350% in semi-and fully automatic winding machines.

Durable, sticky and flexible and can be used in almost any field.

It is usually in transparent or black colors.

Helps to protect products in all weather conditions.

Thanks to a wide pre-stretching aspect, provides cost-effective and efficient packaging solutions.

50 cm as standard, 5000 and 6500 meter coils in 17 and 23 Micron production the market is presented.

Product Type	Specs	Thickness (Mic)	Stretch Factor	Width (cm)	Length (Mt)	Weight	Number of Boxes/Pallet	
Standart	Light	8 / 50 Micron	150%	25	1200 / 6000	Maximum 56 Kg/Roll	12	
Power			200%	30	1200 / 6000		16	
			250%	40				
Super Power	Heavy		300%	45	1200 / 6000		18	
				50				24
				75				



JUMBO TYPE STRETCH FILMS

Cling Films ensure that your food retains its flavor and freshness along with protecting from moisture. It helps keeping the vitamins, minerals and fruit flavors and vegetables fresh and alive. In terms of Health and hygiene, there is no harm in contact with food.

Available roll width: 300 mm and 450 mm.

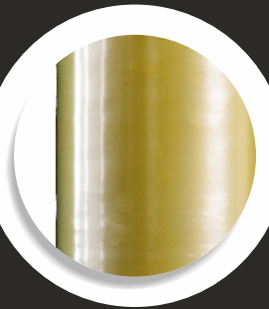
Color options: transparent, balcony and violet.

Antifog doped.

Eco-friendly, 100% recyclable.

ProductType	Specs	Thickness (Mic)	Stretch Factor	Width (cm)	Length (Mt)	Roll Weight	Number of Rolls/Box	Number of Boxes/Pallet
HandType	Light	8 / 15 Micron	150%	10 - 60	100 - 600	0.5 - 6 Kg/Roll	3-6 Roll	20
	Standart		200%					30
			250%					40
			300%					60
	Heavy							80

FOOD GRADE (CLING) FILMS



Resists from 5 C to 50 C heat under normal conditions.			
Can be used in hand and automatic machines.			
It is economical.			
Since it is pre-stretched, it provides advantage of 15-25% to the user.			
Wraps sharp edges without tearing, they are flexible and strong. It is not affected by rain.			
Standard thickness sizes are 7-8-9-10-12 mics.			
They are produced with 5 and 7 layers cast film technology.			
Can be packed in box or pallet.			
Can be produced in different specs in line with the customer demans.			

Product Type	Specs	Thickness (Mic)	Width (cm)	Length (Mt)	Weight	Number of Rolls/Box	Number of Boxes/Pallet
Hand Type	Power PreStretch	5 / 10 Micron	40 - 42	100 - 4000	1 - 12 Kg	1 - 6 Roll	20
							40
Machine Type							60



PRE-STRETCH FILMS

It is used in the packaging of baled animal feed products. Thanks to the resistance to the sunbeams and low oxygen permeability, it allows the products to be stored in an outer environment for a long time.

Tear and puncture resistant.

Ideal stickiness for optimum fermentation.

Works safely & ideally on the traditional winding machines.

Available roll widths: 500 mm and 750 mm.

Color options: White, Green and Black.

Protective UV additive protecting up to 1 year.

Eco-friendly, 100% recyclable.

Product Type	Thickness (Mic)	Width (cm)	Length (Mt)	Weight	Number of Rolls/Box	Number of Boxes/Pallet
Silage Stretch Film	20 / 40 Micron	50 - 75	500 - 5000	Maximum 56 Kg/Roll	1	40
						46
						60
						69
						80

SILAGE STRETCH FILMS



Resists from 5 C to 50 C heat under normal conditions.

Due to its stickiness, you do not need to heat the product or secure it with any other material.

Available in thickness starting from 12 microns and various widths. (400 mm, 450 mm, 500 mm, 750 mm, 1500 mm.)

It can be stretched up to 350% on semi-and fully automatic winding machines.

They are produced in different specks and colors according to customer demands.

Wraps sharp edges without tearing, they are flexible and strong. It is not affected by rain.



COLORED STRETCH FILMS

Our bubble wrap films, which comply with international standards, do not add any additional weight to the product during transportation, thanks to its lightness, as well as keeping your products safely.

It can be produced as one side balloon and sandwich.

It is an economical packaging material that protects against impacts, scratches, dust, bumps, crushing, friction and vibration.

It is an ideal packaging option for the transportation and preservation of products without damage.

Furniture, automotive parts, electronic parts, white goods, gift items, etc. It is the most suitable type of packaging used as a preservative in the sectors.

It can be produced in different specs in line with customer requests.

Product Type	Specs	Thickness (Mic)	Width (cm)	Length (Mt)	Roll Weight	Number of Rolls/Box	Number of Rolls/Pallet
Bubble Wrap	Economic	55 / 250 Micron	20 - 200	20 - 250	1 - 40 Kg	1 - 5 Roll	1
	Standart						20

BUBBLE WRAP



Keeps your product safe.

Made of LDPE.

Produced through high end machines.

High tear and puncture resistance .

Can be produced in different in line with the customer demand.

Production is available with UV, Slip, antiblock additives on customer demand.

ProductType	Specs	Thickness (Mic)	Width (cm)	Length (Mt)	Roll Weight	Number of Rolls/Box	Number of Rolls/Pallet
PE Film	Economic	20 / 220 Micron	25 - 265	Optional	Optional	1 Roll	1
Shrink Film	Standard						4
							8
							12
							16
							20
							40



PE FILMS, SHRINK FILMS, SHRINK HOOD

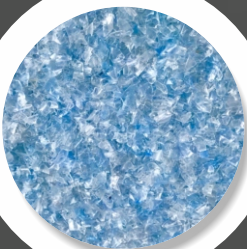
Width (cm)	Thickness (MIC)	ProductType	Quality %	Average Capacity (Kg/Day)			Explanation
				Hand	Machine	Jumbo	
10	8 - 45 MIC	HANDTYPE - MACHINETYPE	150% - 200% - 250% - 300%	4.000	4.000	---	
12.5	8 - 45 MIC	HANDTYPE - MACHINETYPE	150% - 200% - 250% - 300%	4.000	4.000	---	
16.66	8 - 45 MIC	HANDTYPE - MACHINETYPE	150% - 200% - 250% - 300%	4.000	4.000	---	
20	8 - 45 MIC	HANDTYPE - MACHINETYPE	150% - 200% - 250% - 300%	4.000	4.000	---	
25	8 - 45 MIC	HANDTYPE - MACHINETYPE - JUMBOTYPE	150% - 200% - 250% - 300%	5.000	15.000	15.000	
30	8 - 45 MIC	HANDTYPE - MACHINETYPE - JUMBOTYPE	150% - 200% - 250% - 300%	5.000	15.000	15.000	
40	8 - 45 MIC	HANDTYPE - MACHINETYPE - JUMBOTYPE	150% - 200% - 250% - 300%	12.000	25.000	25.000	
45	8 - 45 MIC	HANDTYPE - MACHINETYPE - JUMBOTYPE	150% - 200% - 250% - 300%	12.000	25.000	25.000	
50	8 - 45 MIC	HANDTYPE - MACHINETYPE - JUMBOTYPE	150% - 200% - 250% - 300%	15.000	60.000	60.000	
75	8 - 45 MIC	MACHINETYPE - JUMBOTYPE	150% - 200% - 250% - 300%	---	60.000	60.000	
150	8 - 45 MIC	MACHINETYPE	150% - 200% - 250% - 300%	---	60.000	60.000	
50	17 - 25 MIC	MACHINETYPE	350%	---	17.500	17.500	SPECIAL ORDER
42	7 - 10 MIC	PREE-STRETCH HANDTYPE / MACHINETYPE	PRE-TENSIONED	9.000	9.000	---	CAPACITY CAN BE INCREASED
HANDTYPE	APPROX 300 MT						
MACHINETYPE	APPROX 1500 MT						
JUMBOTYPE	APPROX 4500 MT						

DAILY CAPACITIES ARE GIVEN ACCORDINGTO AVERAGE VALUES. MAY VARY DEPENDING ON THE THICKNESS.

STRETCH FILMS DIMENSIONS



PRODUCT DEFINITION		POST CONSUMER PET FLAKES	
COLOR		CLEAR+LIGHT BLUE MIX MAXIMUM 30% LIGHT BLUE & 70% CLEAR	
PARAMETER	UNIT	SPECIFICATION	
IV (INTRINSIC VISCOSITY)	dl/g	0,74-0,80	
COOH END GROUPS	meq/kg	30±5	
COLORFUL PET AMOUNT (EXCEPT CLEAR BLUE)	ppm	< 50	
PARTICLE SIZE	mm	2-12	
BULK DENSITY	kg/m3	300±20	
MOISTURE AMOUNT	%	< 1	
COLOR	L*	55-83	
COLOR	b*	-11,5±3	
PVC CONTENT	ppm	< 10	
METAL CONTENT	ppm	< 3	
PAPER/LABEL CONTENT	ppm	< 5	
STONE+WOOD CONTENT	ppm	< 5	
NON-SOLUABLE PARTICLES	ppm	< 20	
STALE RATE	ppm	< 3000	
IMPURITY RATIO	ppm	< 50	



PET FLAKE

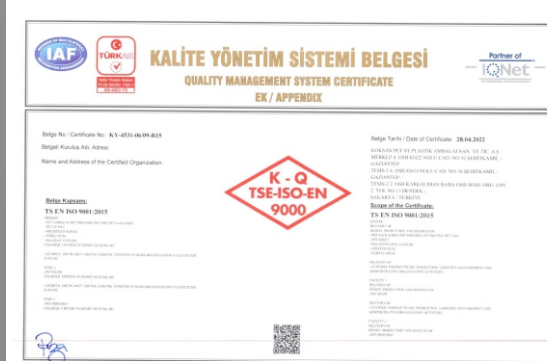
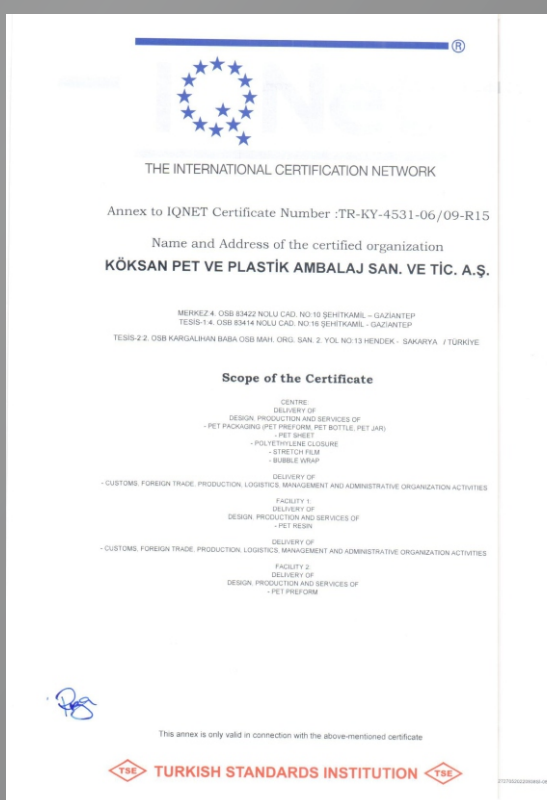


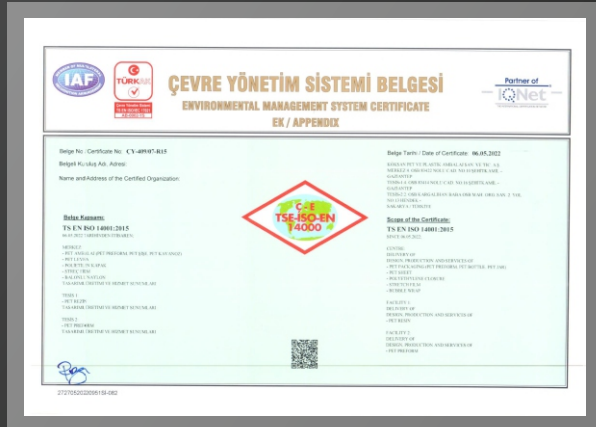
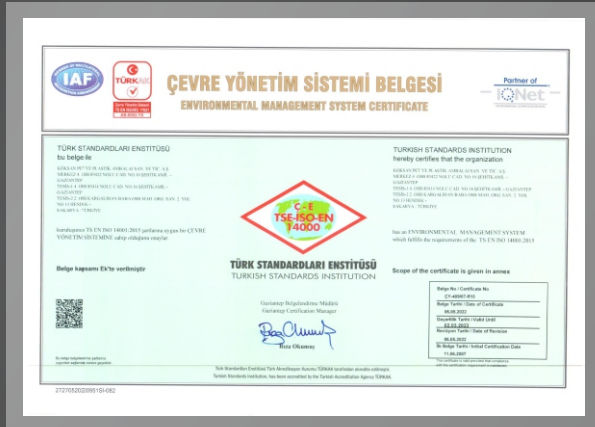
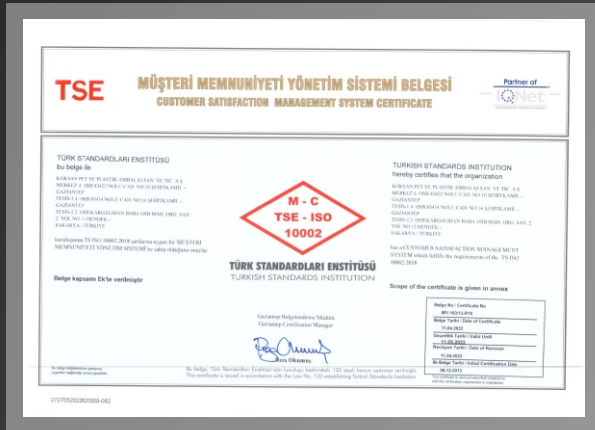
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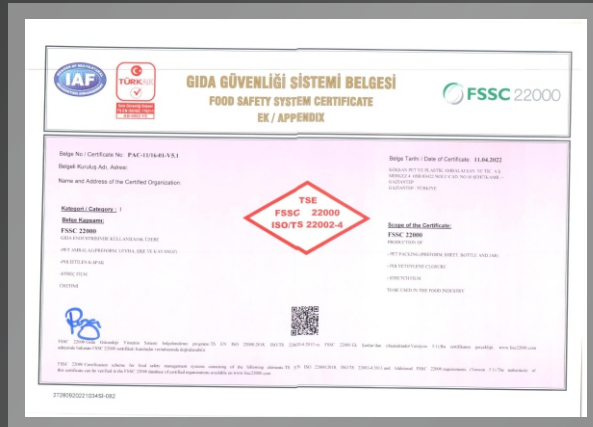
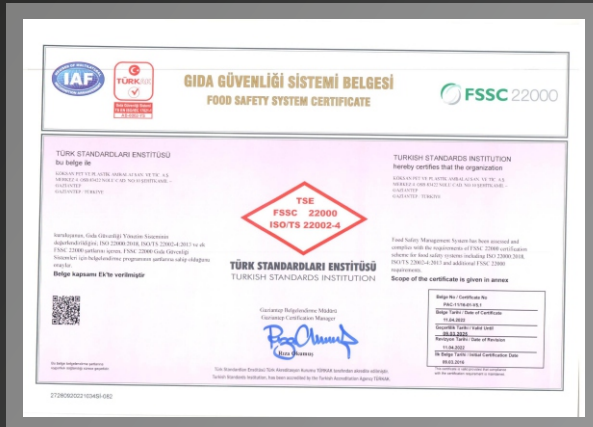


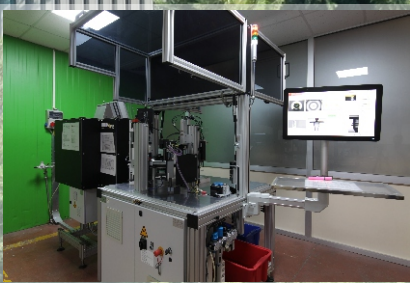
CERTIFICATES

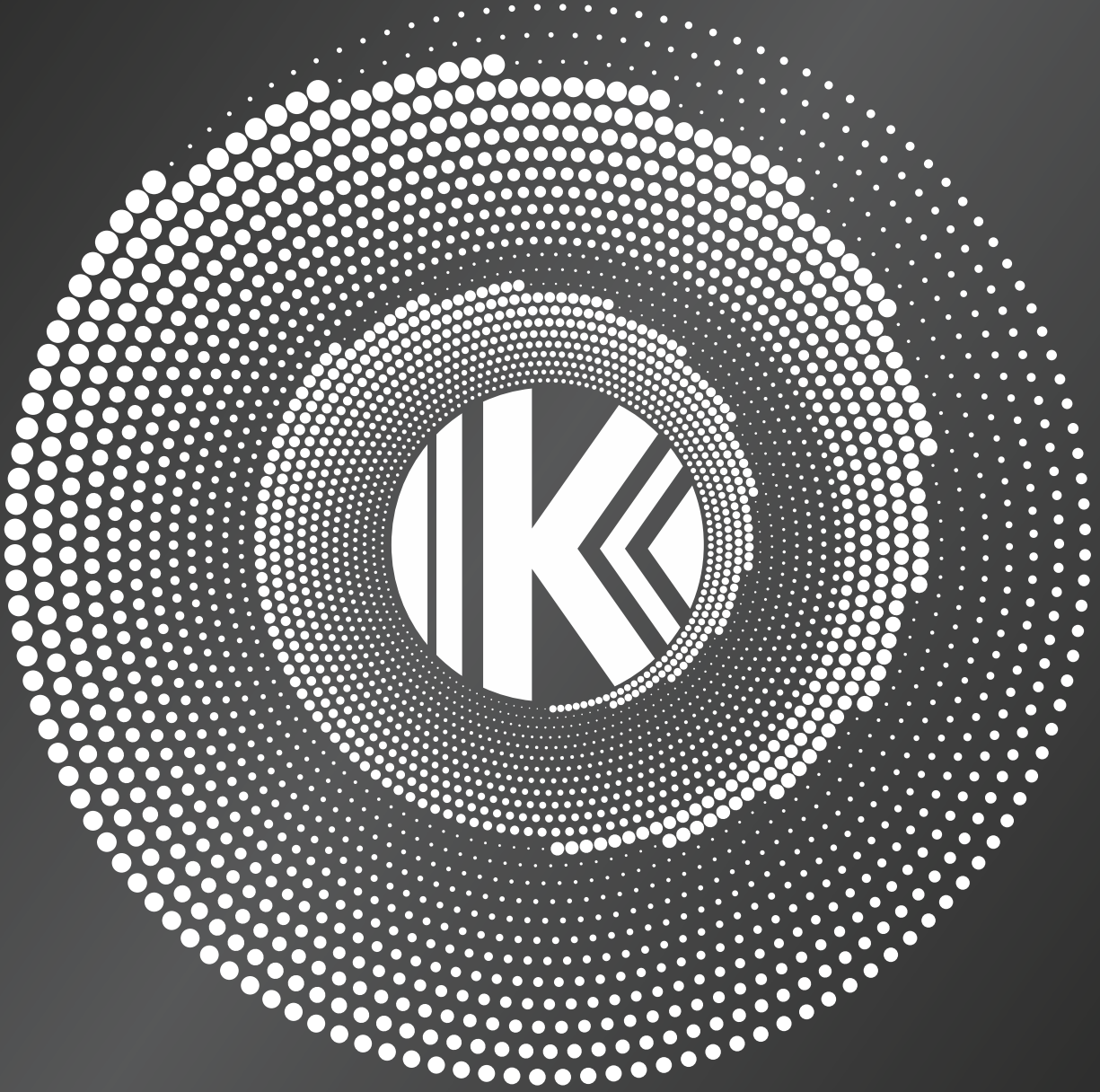












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