

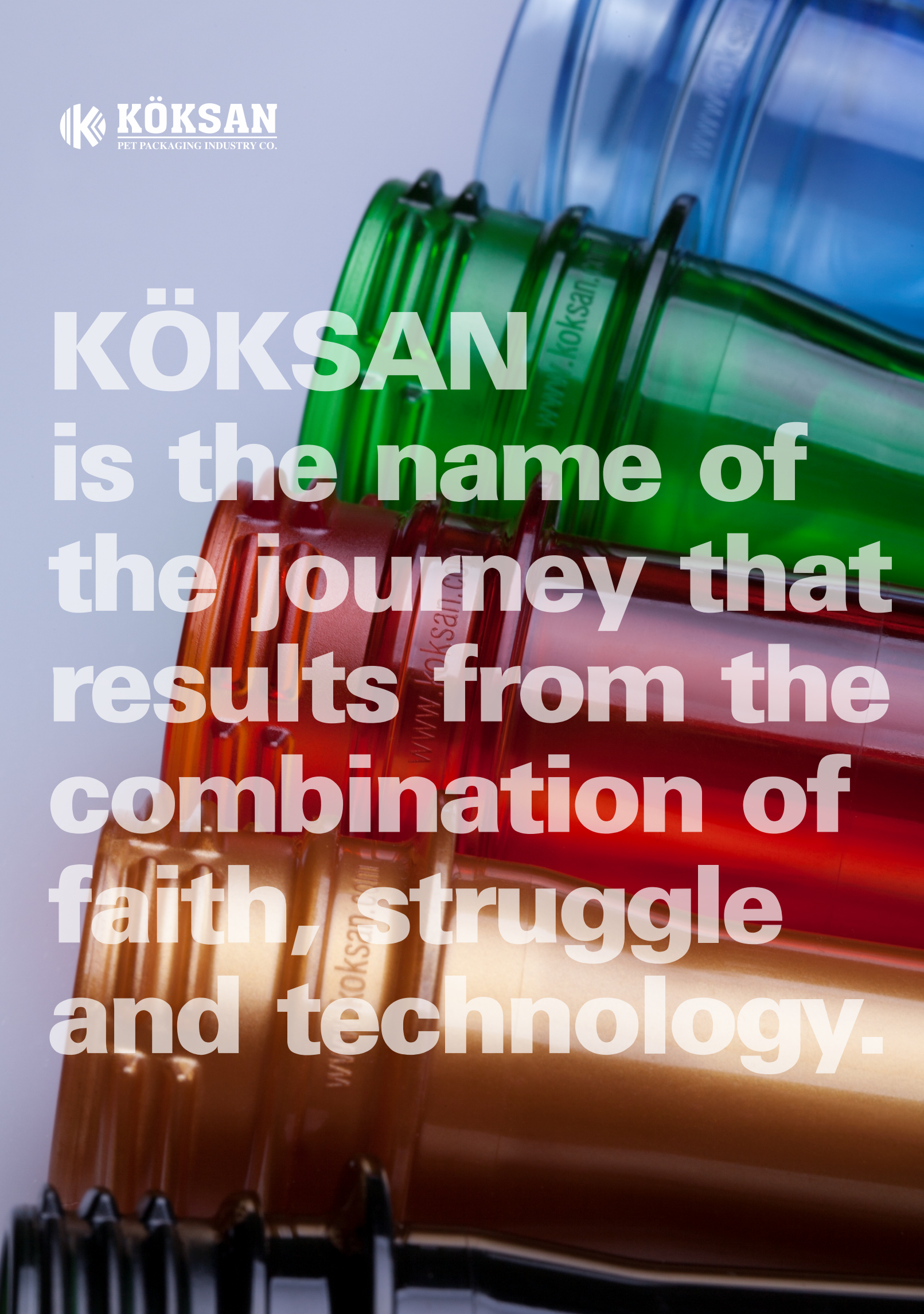
KÖKSAN

PET PACKAGING INDUSTRY CO.

EuroCap
By  **KÖKSAN**



PRODUCTS

A background image showing a close-up of PET bottles in various colors (blue, green, red, orange) moving along a production line. The bottles are slightly out of focus, emphasizing the text overlay.

KÖKSAN
is the name of
the journey that
results from the
combination of
faith, struggle
and technology.

Exceeding a century of experience, KÖKSAN, adapting its entire strategy with international standards, seamless development and sector diversity in its customer portfolio; distributing its investments in different regions globally, KÖKSAN has always gone one step ahead and has become one of the most important players with pride in Turkey and in the Global market.

It continues its activities by producing PET Sheets, PET Resins, PET Jars and Edible Oil Bottles, PET preforms and their Closures, with international standards on a total area of 400.000 m2.

With 300,000 Mtons/year of Pet Resin, 180,000 Mtons/year preforms, 15,000 Mtons/year PE Closures and 5,000 Mtons of Pet Sheet production capacities through all integrated plant meets the needs of both domestic and global requirement.

Providing services to 90 countries in five continents, one of our primary tasks is to reduce environmental impact to the minimum level, to use natural resources optimally, and to ensure education & participation of all employees thoroughly in the system. Thanks to its environment-friendly integrated facility, KÖKSAN has reduced carbon emissions rate to the minimum and saved energy, which would be equivalent to 40-house-village size energy requirement annually.

We produce the world's Preforms ...



PET RESIN



- 300.000 MTON / ANNUAL PRODUCTION CAPACITY
- MTR[®] TECHNOLOGY & APPROVED BY FDA & EFSA
- MELT TO RESIN FOR COST EFFICIENCY & ENERGY SAVING PRODUCTION

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 carbonated 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	ASTM D-4603-03
Acetaldehyde Content	ppm	max.1	ASTM F-2013-01
Color	L* b*	min.90 max.(+1)	ASTM E-313
Melting Point	°C	245 ± 2	DIN 53765
Moisture Content	%	max. 0,2	DIN 51777 Part 2 (09/74)
Chip Size	g/100 chips	1,6 ± 0,2 Spherical	
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 energy.

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 known, 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 very 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-080.

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.



WATER APPLICATIONS



- TOP OF THE LINE INJECTION MACHINES
- VARIOUS PRODUCTION SITES IN THE REGION
- ONE OF THE BIGGEST PREFORM PRODUCTION PLANT IN THE WORLD

WATER PREFORMS 29/25 NECK	PALLETS IN 40HC	PALLET INTRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY INTRUCK
7,5 gr water preform (+/- 7 gr)	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
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) V3	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)	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)V6	44	52	25.344	1.115.136	1.317.888
10 gr water preform (+/-0,2 gr) MM	44	52	25.344	1.115.136	1.317.888
10,5 gr water preform (+/-0,2 gr)V1	44	52	25.344	1.115.136	1.317.888
10,5 gr water preform (+/-0,2 gr)V3	44	52	25.064	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
11,2 gr water preform (+/-0,2 gr)	44	52	25.064	1.058.816	1.251.328
11,5 gr water preform (+/-0,2 gr) V2	44	52	21.888	963.072	1.138.176
11,6 gr water preform (+/-0,2 gr) V1	44	52	21.248	934.912	1.104.896
12 gr water preform (+/-0,2 gr) V1	44	52	21.248	934.912	1.104.896
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)V1	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)V1	44	52	21.248	934.912	1.104.896
14,3 gr water preform (+/-0,2 gr) V3	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) V1	44	52	11.616	511.104	604.032
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)	44	52	10.880	478.720	565.760
24 gr water preform (+/-0,2 gr)	44	52	10.752	473.088	559.104
25 gr water preform (+/-0,3 gr)	44	52	10.880	478.720	565.760
26,5 gr water preform (+/-0,3 gr)	44	52	9.216	405.504	479.232
30 gr water preform (+/-0,3 gr)	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
36 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
29 gr PCO preform (+/-0,3 gr)	44	52	8.928	392.832	464.256
33 gr PCO preform (+/-0,3 gr)	44	52	8.928	392.832	464.256
36 gr PCO preform (+/-0,3 gr)	44	52	8.928	392.832	464.256
52 gr PCO preform (+/-0,6 gr)	44	52	4.176	183.744	217.152
55 gr PCO preform (+/-0,6 gr) V1	44	52	4.032	177.408	209.664
55 gr PCO preform (+/-0,6 gr) V3	44	52	4.176	183.744	217.152
55 gr PCO preform (+/-0,6 gr) V4	44	52	4.176	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	4.176	183.744	217.152
57 gr PCO preform (+/-0,6 gr) V3	44	52	4.176	183.744	217.152
59 gr PCO preform (+/-0,6 gr) V1	44	52	4.176	183.744	217.152
59 gr PCO preform (+/-0,6 gr) V4	44	52	4.176	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
75 gr PCO preform (+/-0,7 gr)	44	52	4.176	183.744	217.152

WATER PREFORMS 48/41 NECK	PALLETS IN 40HC	PALLET INTRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY INTRUCK
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	2.640	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	2.040	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 INTRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY INTRUCK
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		



CSD APPLICATIONS



- HIGH EFFICIENCY PRODUCTION & WIDE RANGE OF 120-PET-PREFORM PORTFOLIO
- VARIOUS APPLICATIONS TO EXTEND SHELF LIFE
- 16 BLN PREFORM PRODUCTION CAPACITY / ANNUALY

PCO 1881 NECK CSD PREFORMS (28 MM)	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
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)	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
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)	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	16.256	715.264	845.312
23,2 gr PCO preform (+/- 0,2 gr)	44	52	16.640	732.160	865.280
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
30 gr PCO preform (+/- 0,3 gr)	44	52	11.520	506.880	599.040
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 INTRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY INTRUCK
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
17,5 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
19,7 gr PCO preform (+/- 0,2 gr)	44	52	15.104	664.576	785.408
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) V1	44	52	8.352	367.488	434.304
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



DIFFERENT APPLICATIONS



- 150.000 M PRODUCTION AREA
- 180.000 TON / ANNUAL PET RESIN CONSUMPTION CAPABILITY
- INNOVATIVE PRODUCTION PROCESS AND DESIGN ENGINEERING

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)	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)	44	52	10.368	456.192	539.136
23 gr. S.ON preform (+/- 0,2 gr)	44	52	10.368	456.192	539.136
25 gr. S.ON preform (+/- 0,3 gr)	44	52	10.368	456.192	539.136
26 gr. S.ON preform (+/- 0,3 gr)	44	52	10.368	456.192	539.136
27 gr. S.ON preform (+/- 0,3 gr)	44	52	10.368	456.192	539.136
29 gr. S.ON preform (+/- 0,3 gr)	44	52	10.368	456.192	539.136
49 gr. S.ON preform (+/- 0,5 gr)	44	52	7.040	309.760	366.080

HOTFILL PREFORMS (33 MM)	PALLETS IN 40HC	PALLET IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
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
19,15 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 IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
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 IN TRUCK	IN-OCTABIN QTY	QTY IN 40HC	QTY IN TRUCK
16,5 gr PCF 26P-2 (+/- 0,2 gr)	44	52	15.744	692.736	818.688



CLOSURES FOR WATER APPLICATION



- **PATENTED PRODUCTION**
- **INJECTION & COMPRESS MOLDING PRODUCTION LINES**
- **10K MTON ANNUAL PE RAW MATERIAL CONSUMPTION**

	NECK FINISH 29/25 (72 KNURL) WATER CLOSURES	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: 28.3 mm	Inner Diameter: 28.25 mm
	Outer Diameter: 31.05 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	Height: 11.4 mm
	Weight: 1.20 gr	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: 7000 pcs	Quantity in Box: 6000 pcs
	Roof thickness: 0,55 mm	Roof thickness: 0,55 mm	Roof thickness: 0,55 mm	Roof thickness: 0,65 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	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.	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.	29/25 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	Injection molding	Compression molding (Coke Approved)
FILLING TECHNOLOGY	Cold filling	Cold filling	Cold filling	Cold filling
MARKET SEGMENT	Still mineral water	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 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 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: 8400 gr, Gross: 9475 gr	Net: 8680 gr, Gross: 9760 gr	Net: 8960 gr, Gross: 10035 gr	Net: 8100 gr, Gross: 9175 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	Drop TE band	Drop TE band	Drop TE band	Slit TE 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: 28.25 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	Compression molding	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: 8700 gr	Net: 7500 gr, Gross: 8580 gr	Net: 7225 gr, Gross: 8300 gr	Net: 4950 gr, Gross: 5980 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 (90 KNURL) CONICAL WATER CLOSURES
PHYSICAL PROPERTIES		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: 2.5 gr	Weight: 4.6 gr
	Quantity in Box: 700 pcs	Quantity in Box: 3000 pcs	Quantity in Box: 1700 pcs
	Roof thickness: 0,9 mm	Roof thickness: 0,60 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	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: 6350 gr	Net: 7500 gr, Gross: 8575 gr	Net: 7820gr, Gross: 8900 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



CLOSURES FOR CSD / HOTFILL / EDIBLE OIL APP.



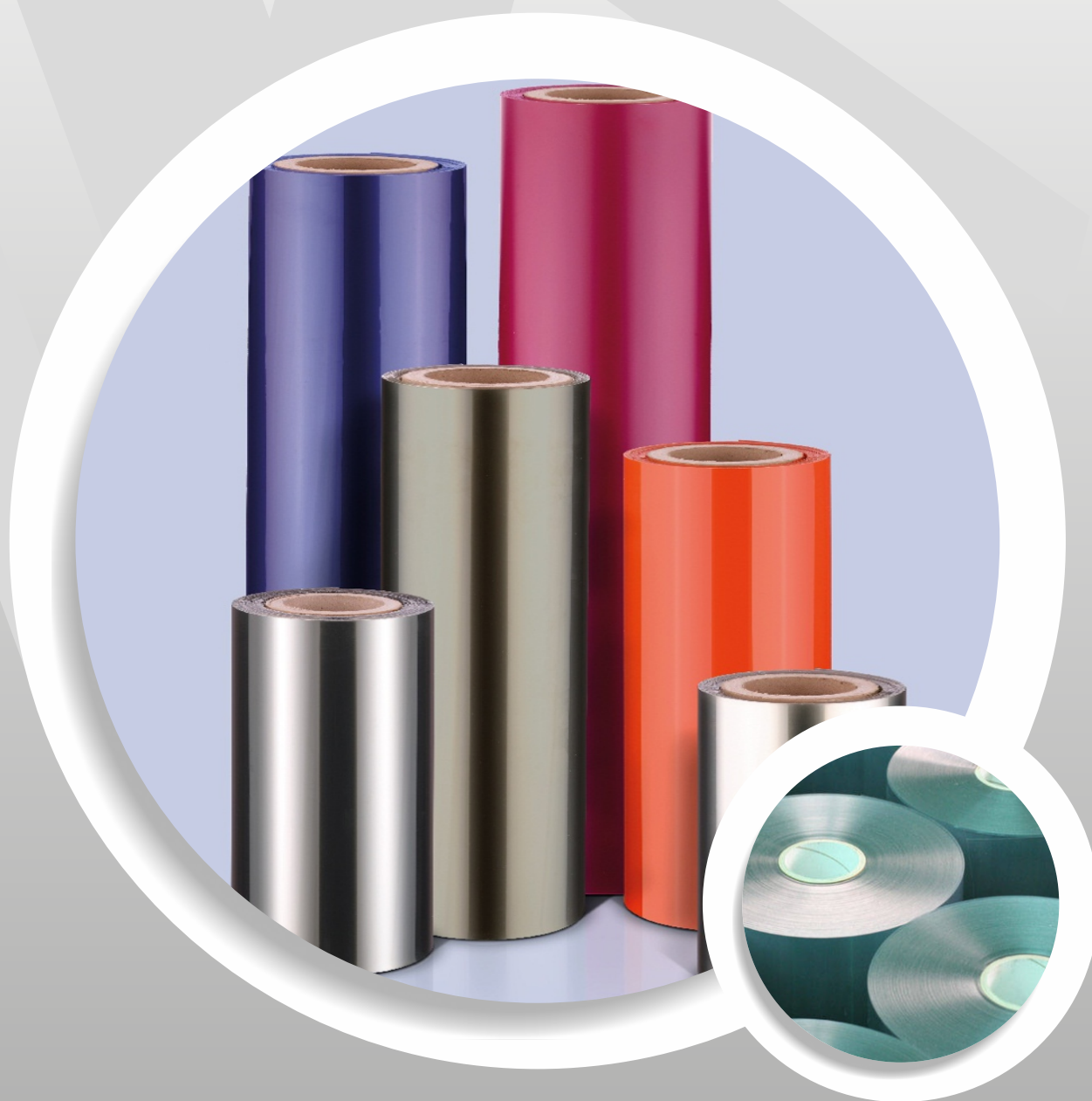
- **14 SUPERIOR MOLDS**
- **INTEGRATED VIDEO CAM. CONTROL SYSTEMS**
- **TOP & INNER LASER PRINT FOR PROMOTIONAL MARKETING**

	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: 1.04 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 (Coke approved)
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: 12975 gr	Net: 13270 gr, Gross: 14350 gr	Net: 12880 gr, Gross: 13960 gr	Net: 12040 gr, Gross: 13120 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: 1.71 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
MARKET SEGMENT	Ice Tea and Fruit 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: 11075 gr	Net: 9405 gr, Gross: 10480 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



PET SHEET



- 250-800^M RANGE OF PRODUCT FOR TERMOFORM APPLICATIONS
- CO-EXTRUSION 3-LAYER PRODUCTION
- 6000 MTON ANNUAL CAPACITY EQUAL 1.5 BLN PET CUP



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.		

KÖKSAN

PET PACKAGING INDUSTRY CO.

EuroCap
By  **KÖKSAN**



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