PlastiPET

Description
Plastirols Amorphous Polyethylene Terephthalate (APET) is a clear polymer used for the packaging industry. It has excellent clarity, combined with with a good stiffness. PlastiPET has different grades, suitable for high-end foodpackaging, for cosmetic applications and technical applications.

Key features

Certifications
The following approvals are available. FSSC 22000, standard 10/2011 EC and its ammendments.

Printing
PlastiPET could be used for printing. This altough needs specific treatment. Please contact our sales department in case printing is required for your application.

Conversion
Glueing of the film can be done with hotmelt or solvent-based glue. For welding applications (Thermal or ultrasonic) Plastirol has a specific grade available, PlastiPET weldpet, please contact our sales department.

Product Availability

Colour
Clear film, PlastiPET with recycled content will have slight colour teints; blueish, yellowish. Standard colours are available on customers demand.

Finish
Standard natural gloss. Surface matting by additive possibile

Physical properties	Standart	Unit	Value
Mechanical properties			
E-Modulus	ISO 527	MPa	2200
IV value		Dl/g	0,70 - 0,80
Thermic properties			
Vicat VST/B/50	ISO 306	°C	77
Other properties			
Specific weight	ISO 1183	g/cm³	1,32
Water vapour transmission	ASTM - F1249	g/m2/24h	7 *)
Permeability CO2	ASTM - D1434	cm3/m2-h-bar	125 *)
Permeability O2	ASTM - D1434	cm3/m2-h-bar	40 *)
*) 0,40 mm film			
Haze value			
Virgin	haze	%	Max 3 *)
Superclear recycled	haze	%	Max 7 *)
Recycled	haze	%	Max 10 *)
*) 0,40 mm film			

Overall Migration test	Simulant	Test condition	Result
Dry, non fatty food	E. Tenax	10 days, 40˚C	suitable
wet and aqueous food	A. Water	10 days, 40˚C	suitable
sauer food, yoghurt, sauce	B. 3% acetic acid	10 days, 40˚C	suitable
alcoholic drinks, milk	D1. 50% ethanol	10 days, 40˚C	suitable
chocolate, cookies, fatty food	D2. 100% vegetable oil	10 days, 40˚C	suitable

Manufacturing Tolerances				
Film thickness	0.21 to 0.40	0.41 to 0.80	0.81 to 1.20	1.21 to 1.50
thickness	+/- 7%	+/- 5%	+/- 4%	+/- 3%
Width	+/- 1mm	+/- 1mm	+/- 2mm	+/- 2mm

Available options
Antiblock, internal or external
Antifog treatment
ESD coating
Coextrusion
Colours

Additional information

Storage
We recommend to store our films with a maximum of 12 months after delivery without any UV composure. Air humidity between 20% and 70%, temperature between 15 and 25 degrees Celcius.

Recyling Circulair
PlastiPET recycled grade is produced with high content of recycled material (30% - 70%), to ensure optimal use of waste materials. Plastirol will facilitate the return of your regrind on demand.

Thermoforming
To keep PlastiPET clear we recommend sheet temperatures of 120 – 165 degrees Celcius. To keep the shrink as low as possible we recommend mould temps around 60 degrees Celcius. Overheating of PlastiPET has negative effect the transparancy of the fil because it will start cristallising.

Chemical resistance
PlastiPET shows a good resistance to aqueous solutions of salt, acid and alkalis. It also has good resistance to most solvents, alcohols, fats and oils, although very limited to ketones.

Visual aspects

	0 - 299	300 - 500	501 - 999	≥ 1000	*)
black spots PlastiPET HQ (virgin)	≤ 15 / m²	≤ 3 / m²	1	none	
black spots PlastiPET RQ (recycled grade)	No spec	≤ 15 / m²	≤ 3 / m²	1	

*) values refer to a diameter of a circle, in micron measured

Plastirol b.v.
Part of PAG

25-10-2022