

PlastiPET ESD Clear



Plastirol
part of PAG

Description

Plastirols Amorphous Polyethylene Terephthalate (APET) ESD is a polymer used for the technical packaging industry. The material has a reduced surface resistance. This film is produced with external antistatic material.

Key features

Shelf life surface and volume resistance

12 Months after production date. Do not wash the film because it will lose its surface and volume resistance.

Certifications

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

Printing

PlastiPET ESD Clear is not applicable for printing.

Product Availability

Colour

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

Finish

Standard natural gloss. Surface matting by additive possible

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/cm ³	1,32	
Water vapour transmission	ASTM - F1249	g/m ² /24h	7 *)	
Permeability CO ₂	ASTM - D1434	cm ³ /m ² -h-bar	125 *)	
Permeability O ₂	ASTM - D1434	cm ³ /m ² -h-bar	40 *)	
*) 0,40 mm film				
Surface resistance	IEC 61340-5-1	Ohm	10.8 - 10.11	
Volume resistance	IEC 61340-5-1	Ohm	-	
Testconditions temperature		degr/Celcius	18 - 28	
Testconditions Relative Humidity		%	50 - 90	
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 exposure. Air humidity between 20% and 70%, temperature between 15 and 25 degrees Celcius.

Recycling Circular

PlastiPET ESD Clear 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 ESD 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 transparency of the film because it will start crystallising.

Chemical resistance

PlastiPET ESD 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 ESD Clear HQ (virgin)	≤ 15 / m ²	≤ 3 / m ²	1	none	
black spots PlastiPET ESD Clear RQ (recycled grade)	No spec	≤ 15 / m ²	≤ 3 / m ²	1	

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

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Disclaimer

Above information is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.