

Polystyrene

white standard



Plastirol
part of PAG

Description

Plastirols polystyrene white is an excellent thermoforming film. It can be produced in a more stiff or more flexible mixture. Plastirol has different grades suitable for food packaging, for cosmetic applications and technical applications.

Key features

Certifications

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

Printing

Polystyrene white standard could be used for printing. Please contact our sales department in case printing is required for your application.

Product Availability

Finish

Standard matt

Physical properties

	Standart	Unit	Value		
Mechanical properties					
E-Modulus	ISO 527	MPa	1850		
Thermic properties					
Vicat VST/B/50	ISO 306	°C	90		
Other properties					
Specific weight	ISO 1183	g/cm ³	1,05		
Water vapour transmission	ASTM - F1249	g/m ² /24h	3,5 *)		
Permeability CO ₂	ASTM - D1434	cm ³ /m ² -h-bar	2700 *)		
Permeability O ₂	ASTM - D1434	cm ³ /m ² -h-bar	1250 *)		
*) 0,40 mm film					
Haze value					
Virgin	haze	%	N/A		
Recycled	haze	%	N/A		
*) 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	not 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	1.51 to 2,00
thickness	+/- 7%	+/- 5%	+/- 4%	+/- 3%	+/- 3%
Width	+/- 1mm	+/- 1mm	+/- 2mm	+/- 2mm	+/- 2mm

Available options

Antiblock, internal or external
 Antifog treatment
 ESD coating
 Color
 Coextrusion

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. Longer storage can cause mechanical degradation

Recycling Circular

Polystyrene white standard regrind of skeleton waste may be returned to Plastirol. Plastirol will facilitate the return of your regrind on demand.

Visual aspects

	0 - 299	300 - 500	501 - 999	≥ 1000	*)
black spots PS white HQ (virgin)	≤ 15 / m ²	≤ 3 / m ²	1	none	
black spots PS white RQ (recycled)	No spec	≤ 15 / m ²	≤ 3 / m ²	1	

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

Plastirol b.v.
 Part of PAG

25-10-2022

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.