

# Plastireen black ESD



**Plastirol**  
part of PAG

## Description

Plastirols Polystyrene black is an excellent thermoforming film. Plastireen can be produced in a more stiff or more flexible mixture. Plastirol has different grades suitable 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

Plastireen black ESD is not applicable for printing. Please contact our sales department in case printing is required for your application.

## Product Availability

### Finish

Standard matt

### Physical properties

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/cm³	1,05		
Water vapour transmission	ASTM - F1249	g/m2/24h	3,5 *)		
Permeability CO2	ASTM - D1434	cm3/m2-h-bar	2700 *)		
Permeability O2	ASTM - D1434	cm3/m2-h-bar	1250 *)		
*) 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	%	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

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. Longer storage can cause mechanical degradation

Recycling Circular

Plastireen black standard regrind of skelleton 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 black HQ (virgin)	N/A	N/A	N/A	N/A	
black spots PS black RQ (recycled)	N/A	N/A	N/A	N/A	

\*) 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.