

# Polystyrene

## black standard



**Plastirol**  
part of PAG

### Description

Plastirols polystyrene black is an excellent thermoforming film. It can be reproduced in a more stiff or more flexible mixture. Plastirol has different grades suitable for foodpackaging, 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 black 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		
<b>Mechanical properties</b>					
E-Modulus	ISO 527	MPa	1850		
<b>Thermic properties</b>					
Vicat VST/B/50	ISO 306	°C	90		
<b>Other properties</b>					
Specific weight	ISO 1183	g/cm <sup>3</sup>	1,05		
Water vapour transmission	ASTM - F1249	g/m <sup>2</sup> /24h	3,5 *)		
Permeability CO <sub>2</sub>	ASTM - D1434	cm <sup>3</sup> /m <sup>2</sup> -h-bar	2700 *)		
Permeability O <sub>2</sub>	ASTM - D1434	cm <sup>3</sup> /m <sup>2</sup> -h-bar	1250 *)		
*) 0,40 mm film					
<b>Haze value</b>					
Virgin	haze	%	N/A		
Recycled	haze	%	N/A		
*) 0,40 mm film					
<b>Overall Migration test</b>					
	<b>Simulant</b>	<b>Test condition</b>	<b>Result</b>		
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		
<b>Manufacturing Tolerances</b>					
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 black 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 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

**Plastirol b.v.**  
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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.