

## BASF Polystyrol® 144 C Polystyrene (Europe)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

### Material Notes:

Very easy flowing grade, often blended with impact-modified Polystyrol or used as a coextruded glossy layer. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Polystyrol-144-C-Polystyrene-Europe.php](http://www.lookpolymers.com/polymer_BASF-Polystyrol-144-C-Polystyrene-Europe.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	
Water Absorption	0.10 %	0.10 %	
Moisture Absorption at Equilibrium	0.10 %	0.10 %	
Linear Mold Shrinkage, Flow	0.0045 cm/cm	0.0045 in/in	
Melt Flow	28 g/10 min	28 g/10 min	
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	42.0 MPa	6090 psi	
Elongation at Break	1.5 %	1.5 %	
Tensile Modulus	3.30 GPa	479 ksi	
Charpy Impact Unnotched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1 hour	3100 MPa	450000 psi	
Tensile Creep Modulus, 1000 hours	2200 MPa	319000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	
Vicat Softening Point	84.0 °C	183 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp. Tg	85.0 °C	180 °F	
Flammability, UL94	HB @Thickness 3.18 mm	HB @Thickness 0.125 in	
Oxygen Index	18 %	18 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Surface Resistance	$1.00 \times 10^{14}$ ohm	$1.00 \times 10^{14}$ ohm	
Dielectric Constant	2.5 @Frequency 100 Hz	2.5 @Frequency 100 Hz	
	2.5 @Frequency $1 \times 10^6$ Hz	2.5 @Frequency $1 \times 10^6$ Hz	
Dissipation Factor	0.000070 @Frequency $1 \times 10^6$ Hz	0.000070 @Frequency $1 \times 10^6$ Hz	
	0.000090 @Frequency 100 Hz	0.000090 @Frequency 100 Hz	
Comparative Tracking Index	375 V	375 V	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China