

BASF Polystyrol® 165 H Polystyrene (Europe)

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

Material Notes:

High molecular grades, often blended with high-impact extrusion grades (e.g. for dairy products). Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Polystyrol-165-H-Polystyrene-Europe.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
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	2.5 g/10 min @Load 5.00 kg, Temperature 200 °C	2.5 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.0 MPa	7540 psi	
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	3.30 GPa	479 ksi	
Charpy Impact Unnotched	2.30 J/cm ²	10.9 ft-lb/in ²	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	3300 MPa	479000 psi	
Tensile Creep Modulus, 1000 hours	2600 MPa	377000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	84.0 °C	183 °F	
Deflection Temperature at 1.8 MPa (264 psi)	76.0 °C	169 °F	
Vicat Softening Point	89.0 °C	192 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp. Tg	90.0 °C	100 °F	
Flammability, UL94	HB @Thickness 3.18 mm	HB @Thickness 0.125 in	
Oxygen Index	18 %	18 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.5 @Frequency 100 Hz	2.5 @Frequency 100 Hz	
	2.5 @Frequency 1e+6 Hz	2.5 @Frequency 1e+6 Hz	
Dissipation Factor	0.000070 @Frequency 1e+6 Hz	0.000070 @Frequency 1e+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

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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