BASF Polystyrol® 454 C Impact Grade Polystyrene (Europe)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Easy flowing, medium-impact grade.Data was collected by ISO methods and provided by BASF.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Polystyrol-454-C-Impact-Grade-Polystyrene-Europe.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in³	
Water Absorption	0.10 %	0.10 %	
Moisture Absorption at Equilibrium	0.10 %	0.10 %	
Linear Mold Shrinkage, Flow	0.0055 cm/cm	0.0055 in/in	
Melt Flow	13 g/10 min @Load 5.00 kg, Temperature 200 °C	13 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.0 MPa	3770 psi	
Elongation at Break	40 %	40 %	
Elongation at Yield	1.4 %	1.4 %	
Tensile Modulus	2.20 GPa	319 ksi	
Charpy Impact Unnotched	12.0 J/cm²	57.1 ft-lb/in²	
	8.00 J/cm² @Temperature -30.0 °C	38.1 ft-lb/in² @Temperature -22.0 °F	
Charpy Impact, Notched	1.00 J/cm²	4.76 ft-lb/in²	
Tensile Creep Modulus, 1000 hours	1700 MPa	247000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C @Temperature 20.0 °C	55.6 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	82.0 °C	180 °F	
Deflection Temperature at 1.8 MPa	75.0 °C	167 °F	

(264 psi)

Thermal Properties	Metric	English	Comments
Vicat Softening Point	84.0 °C	183 °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+13 ohm	1.00e+13 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	0.00015 @Frequency 100 Hz	0.00015 @Frequency 100 Hz	
	0.00040 @Frequency 1e+6 Hz	0.00040 @Frequency 1e+6 Hz	
Comparative Tracking Index	350 V	350 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