

BASF Polystyrol® 576 H Impact Grade Polystyrene (Europe)

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

Material Notes:

Special tough to rigid grade with very good gloss for all types of housings. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Polystyrol-576-H-Impact-Grade-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	0.0055 cm/cm	0.0055 in/in	
Melt Flow	5.5 g/10 min @Load 5.00 kg, Temperature 200 °C	5.5 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	
Elongation at Break	30 %	30 %	
Elongation at Yield	1.6 %	1.6 %	
Tensile Modulus	2.05 GPa	297 ksi	
Charpy Impact Unnotched	12.0 J/cm ²	57.1 ft-lb/in ²	
	7.00 J/cm ² @Temperature -30.0 °C	33.3 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	

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)	88.0 °C	190 °F	
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	
Vicat Softening Point			

Thermal Properties	90.0 °C Metric	194 °F English	Comments
Flammability, UL94	HB	HB	
	@Thickness 3.18 mm	@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	2.5	
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.5	2.5	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00040	0.00040	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.00040	0.00040	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	500 V	500 V	

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