

BASF Polystyrol® 456 F Impact Grade Polystyrene (Europe)

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

Material Notes:

Heat distortion resistant, good flowing grade for parts subjected to heat. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Polystyrol-456-F-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	6.0 g/10 min	6.0 g/10 min	
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.0 MPa	4930 psi	
Elongation at Break	30 %	30 %	
Elongation at Yield	1.8 %	1.8 %	
Tensile Modulus	2.25 GPa	326 ksi	
Charpy Impact Unnotched	12.0 J/cm ²	57.1 ft-lb/in ²	
	9.00 J/cm ²	42.8 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	
Deflection Temperature at 1.8 MPa (264 psi)	84.0 °C	183 °F	
Vicat Softening Point			

Thermal Properties	94.0 °C Metric	201 °F English	Comments
Flammability, UL94	HB	HB	
	@Thickness 3.05 mm	@Thickness 0.120 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	1.00×10^{13} ohm	1.00×10^{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	0.00015	0.00015	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.00040	0.00040	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	425 V	425 V	

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