

BASF Polystyrol® 473 D Impact Grade Polystyrene (Europe)

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

Material Notes:

Easy flowing, high-impact grade, often blended with easy flowing general purpose Polystyrol; easy to thermoform. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Polystyrol-473-D-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	12 g/10 min @Load 5.00 kg, Temperature 200 °C	12 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.0 MPa	2760 psi	
Elongation at Break	35 %	35 %	
Elongation at Yield	1.2 %	1.2 %	
Tensile Modulus	1.70 GPa	247 ksi	
Charpy Impact Unnotched	NB	NB	
	14.0 J/cm ² @Temperature -30.0 °C	66.6 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)	73.0 °C	163 °F	
Deflection Temperature at 1.8 MPa (264 psi)	67.0 °C	153 °F	

Thermal Properties	Metric	English	Comments
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	1.00×10^{13} ohm	1.00×10^{13} ohm	
Dielectric Constant	2.5 @Frequency 100 Hz	2.5 @Frequency 100 Hz	
	2.5 @Frequency 1×10^6 Hz	2.5 @Frequency 1×10^6 Hz	
Dissipation Factor	0.00020 @Frequency 100 Hz	0.00020 @Frequency 100 Hz	
	0.00040 @Frequency 1×10^6 Hz	0.00040 @Frequency 1×10^6 Hz	
Comparative Tracking Index	425 V	425 V	

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