

BASF Polystyrol® 143 EO Polystyrene (Europe)

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

Material Notes:

Easy flowing grade for the injection molding and extrusion of low-taint food packaging. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Polystyrol-143-EO-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	10 g/10 min @Load 5.00 kg, Temperature 200 °C	10 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	46.0 MPa	6670 psi	
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	3.30 GPa	479 ksi	
Charpy Impact Unnotched	1.70 J/cm ²	8.09 ft-lb/in ²	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	
Tensile Creep Modulus, 1000 hours	2200 MPa	319000 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)	82.0 °C	180 °F	
Deflection Temperature at 1.8 MPa (264 psi)	72.0 °C	162 °F	
Vicat Softening Point	84.0 °C	183 °F	
	HB	HB	

Thermal Properties	Metric	English	Comments
	@ Thickness 3.18 mm	@ Thickness 0.125 in	

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^{14} ohm	1.00×10^{14} ohm	
Dielectric Constant	2.5	2.5	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.000070	0.000070	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.000090	0.000090	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	375 V	375 V	

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