

BASF Polystyrol® 585 K Impact Grade Polystyrene (Europe)

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

Material Notes:

Special high gloss, high-impact grade for all types of housings. Basis product for gloss capping. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Polystyrol-585-K-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	4.0 g/10 min	4.0 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	32.0 MPa	4640 psi	
Elongation at Break	25 %	25 %	
Elongation at Yield	1.9 %	1.9 %	
Tensile Modulus	1.90 GPa	276 ksi	
Charpy Impact Unnotched	16.0 J/cm ²	76.1 ft-lb/in ²	
	8.00 J/cm ²	38.1 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	2000 MPa	290000 psi	
Tensile Creep Modulus, 1000 hours	1600 MPa	232000 psi	

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	

Thermal Properties Deflection Temperature at 0.46 MPa (100 psi)	Metric 87.0 °C	English 189 °F	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	
Vicat Softening Point	89.0 °C	192 °F	
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 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	0.00040 @Frequency 100 Hz	0.00040 @Frequency 100 Hz	
	0.00040 @Frequency 1e+6 Hz	0.00040 @Frequency 1e+6 Hz	
Comparative Tracking Index	575 V	575 V	

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