

## BASF Polystyrol® 432 B Impact Grade Polystyrene (Europe)

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

### Material Notes:

Very easy-flowing, low impact grade for parts with unfavorable flow path/wall-thickness ratios. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Polystyrol-432-B-Impact-Grade-Polystyrene-Europe.php](http://www.lookpolymers.com/polymer_BASF-Polystyrol-432-B-Impact-Grade-Polystyrene-Europe.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	
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	23 g/10 min	23 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	33.0 MPa	4790 psi	
Elongation at Break	20 %	20 %	
Elongation at Yield	1.4 %	1.4 %	
Tensile Modulus	2.70 GPa	392 ksi	
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	
	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1000 hours	1800 MPa	261000 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	
Deflection Temperature at 0.46 MPa (66 psi)	78.0 °C	172 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	82.0 °C	180 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.15 mm	@Thickness 0.124 in	

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	
Dissipation Factor	0.00010	0.00010	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.00010	0.00010	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	375 V	375 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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