

## BASF Polystyrol® 476 L Impact Grade Polystyrene (Europe)

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

### Material Notes:

Normal flowing, high-impact grade. When extruded it is often mixed with PS 165 H. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Polystyrol-476-L-Impact-Grade-Polystyrene-Europe.php](http://www.lookpolymers.com/polymer_BASF-Polystyrol-476-L-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	5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.0 MPa	3770 psi	
Elongation at Break	35 %	35 %	
Elongation at Yield	1.5 %	1.5 %	
Tensile Modulus	1.85 GPa	268 ksi	
Charpy Impact Unnotched	NB	NB	
	13.0 J/cm <sup>2</sup> @Temperature -30.0 °C	61.9 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1 hour	1800 MPa	261000 psi	
Tensile Creep Modulus, 1000 hours	1300 MPa	189000 psi	

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	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	83.0 °C	181 °F	
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	
Vicat Softening Point	90.0 °C	194 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.18 mm	@Thickness 0.125 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	2.5	
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.5	2.5	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00040	0.00040	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.00040	0.00040	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	500 V	500 V	

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