

## BASF Polystyrol® 168 NO Polystyrene (Europe)

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

### Material Notes:

High molecular, heat-resistant grades for the extrusion of low-taint food packaging, especially BOPS. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Polystyrol-168-NO-Polystyrene-Europe.php](http://www.lookpolymers.com/polymer_BASF-Polystyrol-168-NO-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	0.0045 cm/cm	0.0045 in/in	
Melt Flow	1.8 g/10 min @Load 5.00 kg, Temperature 200 °C	1.8 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	57.0 MPa	8270 psi	
Elongation at Break	2.5 %	2.5 %	
Tensile Modulus	3.30 GPa	479 ksi	
Charpy Impact Unnotched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1000 hours	2600 MPa	377000 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)	98.0 °C	208 °F	
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	
Vicat Softening Point	101 °C	214 °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	$1.00 \times 10^{14}$ ohm	$1.00 \times 10^{14}$ ohm	
Dielectric Constant	2.5	2.5	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.000050	0.000050	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	0.000090	0.000090	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	475 V	475 V	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China