

## Styrolution Polystyrol 168 N GR 2 PS

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

### Material Notes:

Description: Polystyrol 168 N is a high molecular, heat grade used where high strength is required. Suitable for physically or chemically expanded extruded sheet. As blend component with high impact Polystyrol or Styrolux. Applications: Foamed meat trays, foamed labels. In mixture with high impact Polystyrene for coffee cups, lids. In mixture with Styrolux for transparent, impact resistant cups, breakers and lids. Information provided by STYROLUTION, which is a joint venture between BASF and INEOS

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styrolution-Polystyrol-168-N-GR-2-PS.php](http://www.lookpolymers.com/polymer_Styrolution-Polystyrol-168-N-GR-2-PS.php)

Physical Properties	Metric	English	Comments
Density	1.048 g/cc	0.03786 lb/in <sup>3</sup>	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62
Moisture Absorption at Equilibrium	<= 0.10 %	<= 0.10 %	23 <sup>o</sup> C/50% RH; ISO 62
Melt Flow	1.572 g/10 min @Load 5.00 kg, Temperature 200 <sup>o</sup> C	1.572 g/10 min @Load 11.0 lb, Temperature 392 <sup>o</sup> F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa @Load 36.5 kg, Time 30.0 sec	21800 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength at Break	59.0 MPa	8560 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
Tensile Modulus	3.30 GPa	479 ksi	ISO 527-1/-2
Flexural Strength	106 MPa	15400 psi	ISO 178
Shear Modulus	1.45 GPa	210 ksi	ISO 6721-2
Charpy Impact Unnotched	<= 2.50 J/cm <sup>2</sup>	<= 11.9 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.0 <sup>o</sup> C	208 <sup>o</sup> F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	86.0 <sup>o</sup> C	187 <sup>o</sup> F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
	108 Å°C	226 Å°F	VST/A/120; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Diameter 1.60 mm	@Diameter 0.0630 in	
	HB	HB	IEC 60695-11-10
	@Diameter 3.18 mm	@Diameter 0.125 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	IEC 60093
Dielectric Constant	2.5	2.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.5	2.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	135 kV/mm	3430 kV/in	K20/P50; IEC 60243-1

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 Å°C	410 - 464 Å°F	Flat film
	180 - 280 Å°C	356 - 536 Å°F	
Mold Temperature	10.0 - 60.0 Å°C	50.0 - 140 Å°F	Injection Molding

Descriptive Properties	Value	Comments
Color	Crystal Clear 00013	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding and Extrusion	

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