

## Styrolution Polystyrol 143 E GR 2 PS

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

### Material Notes:

Description: Polystyrol 143 E is a medium strength, easy flowing general purpose grade, suitable for blending with impact modified Polystyrol, Styrolux and coextruded gloss layers. Applications: In blends with high impact polystyrene or Styrolux; thermoformed articles like cups for cold beverages and lids. As easy flowing coextruded gloss layer on food packaging containers and vending cups. Injection molded articles like razors, tooth brushes, packing articles. 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-143-E-GR-2-PS.php](http://www.lookpolymers.com/polymer_Styrolution-Polystyrol-143-E-GR-2-PS.php)

Physical Properties	Metric	English	Comments
Density	1.043 g/cc	0.03768 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	10.43 g/10 min @Load 5.00 kg, Temperature 200 <sup>o</sup> C	10.43 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	46.0 MPa	6670 psi	ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/-2
Tensile Modulus	3.30 GPa	479 ksi	ISO 527-1/-2
Flexural Strength	72.0 MPa	10400 psi	ISO 178
Poissons Ratio	0.22	0.22	Calculated
Shear Modulus	1.35 GPa	196 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	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa			

(56 psi) Thermal Properties	82.0 Å°C Metric	180 Å°F English	ISO 75-1/-2 Comments
Deflection Temperature at 1.8 MPa (264 psi)	72.0 Å°C	162 Å°F	ISO 75-1/-2
Vicat Softening Point	84.0 Å°C	183 Å°F	VST/B/50; ISO 306
	90.0 Å°C	194 Å°F	VST/A/120; ISO 306
Flammability, UL94	HB @Diameter 1.60 mm	HB @Diameter 0.0630 in	IEC 60695-11-10
	HB @Diameter 3.18 mm	HB @Diameter 0.125 in	IEC 60695-11-10

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 @Frequency 1.00e+6 Hz	2.5 @Frequency 1.00e+6 Hz	IEC 60250
	2.5 @Frequency 100 Hz	2.5 @Frequency 100 Hz	IEC 60250
Dielectric Strength	135 kV/mm	3430 kV/in	K20/P50; IEC 60243-1

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 240 Å°C	392 - 464 Å°F	Flat film
	180 - 280 Å°C	356 - 536 Å°F	Injection Molding
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	

## Contact Songhan Plastic Technology Co.,Ltd.

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