

Styrolution Polystyrol 158 K GR 21 PS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

Description: Polystyrol 158 K is a heat resistant, rapid freezing general purpose grade. It is suitable for expanded sheet and film; for blend s with high impact Polystyrol in heat contact applications for transparent, resistant applications in blends with Styrolux.Applications: In blends with high impact polystyrene or Styrolux; thermoformed articles for packaging of dairy products, cups for hot beverages, eg. coffee cups with low heat shrinkage. As material for physically or chemically foamed sheet, eg. for meat trays or labels. Injection molded 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-158-K-GR-21-PS.php

Physical Properties	Metric	English	Comments
Density	1.048 g/cc	0.03786 lb/in ³	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62
Moisture Absorption at Equilibrium	<= 0.10 %	<= 0.10 %	23Â°C/50% RH; ISO 62
Melt Flow	3.144 g/10 min @Load 5.00 kg, Temperature 200 Â°C	3.144 g/10 min @Load 11.0 lb, Temperature 392 Â°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	55.0 MPa	7980 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	103 MPa	14900 psi	ISO 178
Shear Modulus	1.40 GPa	203 ksi	ISO 6721-2
Charpy Impact Unnotched	<= 2.50 J/cm ²	<= 11.9 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.0 Â°C	208 Â°F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Vicat Softening Point	101 Â°C	214 Â°F	VST/B/50; ISO 306
	108 Â°C	226 Â°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	200 - 240 Â°C	392 - 464 Â°F	Flat film
	180 - 280 Â°C	356 - 536 Â°F	Injection Molding
Mold Temperature	10.0 - 60.0 Â°C	50.0 - 140 Â°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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