

Styrolution Polystyrol 485 I GR 2 PS

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

Material Notes:

Description: Polystyrol 485 I GR2 is a high-impact grade of polystyrene for extruded sheets with a matt surface. Applications: Sheet, semi finished goods, fat resistant food packaging. 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-485-I-GR-2-PS.php

Physical Properties	Metric	English	Comments
Density	1.029 g/cc	0.03717 lb/in ³	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62
Moisture Absorption at Equilibrium	<= 0.10 %	<= 0.10 %	23 ^o C/50% RH; ISO 62
Melt Flow	4.116 g/10 min @Load 5.00 kg, Temperature 200 ^o C	4.116 g/10 min @Load 11.0 lb, Temperature 392 ^o F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	35 %	35 %	Nominal, 50mm/min; ISO 527-1/-2
Elongation at Yield	1.6 %	1.6 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	1.65 GPa	239 ksi	ISO 527-1/-2
Flexural Strength	32.0 MPa	4640 psi	ISO 178
Charpy Impact Unnotched	<= 14.0 J/cm ² @Temperature -30.0 ^o C	<= 66.6 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eU
	<= NB @Temperature 23.0 ^o C	<= NB @Temperature 73.4 ^o F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ² @Temperature -30.0 ^o C	3.33 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eA
	1.20 J/cm ² @Temperature 23.0 ^o C	5.71 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Vicat Softening Point	87.0 Â°C	189 Â°F	VST/B/50; ISO 306
Flammability, UL94	HB @Diameter 1.60 mm	HB @Diameter 0.0630 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+13 ohm	>= 1.00e+13 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	155 kV/mm	3940 kV/in	K20/P50; IEC 60243-1

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 Â°C	356 - 500 Â°F	Injection molding
	200 - 240 Â°C	392 - 464 Â°F	Plates
	200 - 240 Â°C	392 - 464 Â°F	Flat film
Mold Temperature	10.0 - 60.0 Â°C	50.0 - 140 Â°F	Injection Molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding and Extrusion	
Surface Gloss	12	Skalenteile

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