

Styrolution Polystyrol 486 M GR 2 PS

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

Material Notes:

Description: Polystyrol 486 M is a normal flowing, high-impact grade that is especially suitable for blends with a high proportion of general-purpose Polystyrol (preferably Polystyrol 165 H or Polystyrol 158 K for better heat resistance). Suitable for all kinds of thermoformed packagings. 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-486-M-GR-2-PS.php

Physical Properties	Metric	English	Comments
Density	1.028 g/cc	0.03714 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	4.112 g/10 min @Load 5.00 kg, Temperature 200 ^o C	4.112 g/10 min @Load 11.0 lb, Temperature 392 ^o F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	66.0 MPa @Load 36.5 kg, Time 30.0 sec	9570 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	24.0 MPa	3480 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	35 %	35 %	Nominal, 50mm/min; ISO 527-1/-2
Elongation at Yield	1.5 %	1.5 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	1.80 GPa	261 ksi	ISO 527-1/-2
Shear Modulus	0.750 GPa	109 ksi	ISO 6721-2
Charpy Impact Unnotched	<= 16.0 J/cm ² @Temperature -30.0 ^o C	<= 76.1 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eU
Charpy Impact, Notched	<= NB @Temperature 23.0 ^o C	<= NB @Temperature 73.4 ^o F	ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	83.0 Å°C	181 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	74.0 Å°C	165 Å°F	ISO 75-1/-2
Vicat Softening Point	86.0 Å°C	187 Å°F	VST/A/50; ISO 306
	87.0 Å°C	189 Å°F	VST/B/50; ISO 306

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	
Dielectric Strength	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	200 - 230 Å°C	392 - 446 Å°F	Plates
	180 - 260 Å°C	356 - 500 Å°F	Injection molding
	200 - 240 Å°C	392 - 464 Å°F	Flat film
Mold Temperature	10.0 - 60.0 Å°C	50.0 - 140 Å°F	Injection Molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding and Extrusion	
Surface Gloss	34	Skalenteile

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