

Styrolution Polystyrol 145 D PS

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

Material Notes:

Description: Polystyrol 145 D is a medium strength, easy flowing general purpose grade, suitable for blending with impact modified Polystyrol. Applications: In blends with high impact polystyrene especially suitable for FFS-sheets. 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-145-D-PS.php

Physical Properties	Metric	English	Comments
Density	1.046 g/cc	0.03779 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	15.69 g/10 min @Load 5.00 kg, Temperature 200 ^o C	15.69 g/10 min @Load 11.0 lb, Temperature 392 ^o F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa	21800 psi	ISO 2039-1
Tensile Strength at Break	44.0 MPa	6380 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	70.0 MPa	10200 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 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)	88.0 ^o C	190 ^o F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	80.0 ^o C	176 ^o F	ISO 75-1/-2
Vicat Softening Point	88.0 ^o C	190 ^o F	VST/B/50; ISO 306

Thermal Properties	Metric	English	Comments
	100 °C	200 °F	VS17A/120, ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ 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 Â°C	410 - 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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