

Styrolution PS-145D Polystyrene

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

Material Notes:

Description: Polystyrene 145D is a high flow, general purpose polystyrene. PS 145D offers exceptional processing characteristics for thin walled parts, multi-cavity tools, and complex designs. It is best suited for both injection molding and extrusion. If used unmodified and under appropriate processing conditions PS 145D conforms with FDA Title 21 CFR Section 177.1640 regarding the use of polystyrene in food contact articles. USP Class VI Listed. Application: Include thin walled containers, audio and video cassette packaging, vials, jars and cutlery. It is ideally suited for blending with HIPS, clear SBS block copolymers, or other applications where low odor and taste are critical. Polystyrene 145D can also be utilized as a coextruded gloss cap over high-impact polystyrene. 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-PS-145D-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	15.75 g/10 min	15.75 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	ISO 527
Tensile Modulus	3.30 GPa	479 ksi	ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Charpy Impact Unnotched	<= 2.50 J/cm ²	<= 11.9 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	88.0 Â°C	190 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Â°C	176 Â°F	ISO 75
Vicat Softening Point	88.0 Â°C @Temperature 50.0 Â°C	190 Â°F @Temperature 122 Â°F	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+14 ohm	>= 1.00e+14 ohm	IEC 60093

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	2.5	2.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	135 kV/mm	3430 kV/in	K20/P20; IEC 60243-1

Descriptive Properties	Value	Comments
Commercial Status	North America	

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