

Styrolution Polystyrol 495 F GR 2 PS

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

Material Notes:

Description: Polystyrol 495 F is a high impact polystyrene with a good heat resistance and high stiffness. Applications: Consumer electronics; TV-front and back; chassis for VCR and CD player. Household: internal parts of vacuum cleaners; refrigerator parts; drawers; audio- and video cassettes; printer housings, keyboards, computers, copier parts. 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-495-F-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 %	23Â°C/50% RH; ISO 62
Melt Flow	9.766 g/10 min @Load 5.00 kg, Temperature 200 Â°C	9.766 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	74.0 MPa @Load 36.5 kg, Time 30.0 sec	10700 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	26.0 MPa	3770 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	40 %	40 %	Nominal, 50mm/min; ISO 527-1/-2
Elongation at Yield	1.5 %	1.5 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	2.00 GPa	290 ksi	ISO 527-1/-2
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D256
Charpy Impact Unnotched	<= 13.0 J/cm ² @Temperature -30.0 Â°C	<= 61.9 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179/1eU
	<= NB @Temperature 23.0	<= NB @Temperature 73.4 Â°F	ISO 179/1eU

Mechanical Properties	°C Metric	English	Comments
Charpy Impact, Notched	1.70 J/cm²	8.09 ft-lb/in²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	89.0 °C	192 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ISO 75-1/-2
Vicat Softening Point	88.5 °C	191 °F	VST/B/50; ISO 306
	98.0 °C	208 °F	VST/A/50; 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 3.00 mm	@Diameter 0.118 in	

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 °C	356 - 500 °F	Injection molding
Mold Temperature	10.0 - 60.0 °C	50.0 - 140 °F	Injection Molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

Surface Gloss Descriptive Properties	45 Value	Skalenteile Comments
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