Evonik Corporation Vestyron® 548 S Impact-Modified Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant

Material Notes:

Uses: Housings, cases and peripherals for electronics.ISO data as provided by the manufacturer.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestyron-548-S-Impact-Modified-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in³	
Water Absorption	0.00 %	0.00 %	
Melt Flow	15 g/10 min	15 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	
Elongation at Break	35 %	35 %	
Elongation at Yield	1.0 %	1.0 %	
Modulus of Elasticity	2.40 GPa	348 ksi	
Charpy Impact Unnotched	6.50 J/cm²	30.9 ft-lb/in²	
	5.00 J/cm² @Temperature -30.0 °C	23.8 ft-lb/in² @Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm²	2.86 ft-lb/in²	

Thermal Properties	Metric	English	Comments
CTE, linear	<= 50.0 µm/m-°C @Temperature 20.0 °C	<= 27.8 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	82.0 °C	180 °F	
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	
Vicat Softening Point	83.0 °C	181 °F	50°C/hr/50 N
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
	V-2	V-2	

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	26 %	26 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.0 @Frequency 100 Hz	2.0 @Frequency 100 Hz	
	2.0 @Frequency 1e+6 Hz	2.0 @Frequency 1e+6 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	
Dissipation Factor	0.00060 @Frequency 100 Hz	0.00060 @Frequency 100 Hz	
	0.00060 @Frequency 1e+6 Hz	0.00060 @Frequency 1e+6 Hz	
Comparative Tracking Index	300 V	300 V	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China