

Evonik Corporation Vestyron® 638 Impact-Modified Polystyrene

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

Material Notes:

Uses: Thermoformed packaging by blending with standard polystyrene, panels.ISO data as provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestyron-638-Impact-Modified-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Water Absorption	0.00 %	0.00 %	
Melt Flow	5.0 g/10 min	5.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.0 MPa	3770 psi	
Elongation at Break	50 %	50 %	
Elongation at Yield	1.0 %	1.0 %	
Modulus of Elasticity	1.90 GPa	276 ksi	
Charpy Impact Unnotched	14.0 J/cm ²	66.6 ft-lb/in ²	
	10.0 J/cm ²	47.6 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear	<= 50.0 µm/m-°C	<= 27.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	89.0 °C	192 °F	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	
Vicat Softening Point	90.0 °C	194 °F	50°C/hr/50 N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments
Oxygen Index	18 %	18 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Surface Resistance	1.00×10^{14} ohm	1.00×10^{14} ohm	
Dielectric Constant	2.0	2.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Constant	2.0	2.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	60.0 kV/mm	1520 kV/in	
Dissipation Factor	0.00030	0.00030	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.00030	0.00030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	500 V	500 V	

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