

## Evonik Corporation Vestyron® 512 Impact-Modified Polystyrene

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

### Material Notes:

Uses: Household articles, closures, furniture components, photography articles.ISO data as provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Vestyron-512-Impact-Modified-Polystyrene.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestyron-512-Impact-Modified-Polystyrene.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	
Water Absorption	0.00 %	0.00 %	
Melt Flow	22 g/10 min	22 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	
Elongation at Break	35 %	35 %	
Elongation at Yield	1.0 %	1.0 %	
Modulus of Elasticity	2.60 GPa	377 ksi	
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	@Temperature -30.0 °C @Temperature -22.0 °F
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	

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)	77.0 °C	171 °F	
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C	160 °F	
Vicat Softening Point	81.0 °C	178 °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	$1.00 \times 10^{14}$ ohm	$1.00 \times 10^{14}$ 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	62.0 kV/mm	1570 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	350 V	350 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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