

Styrolution PS ESCRimo HIPS

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

Material Notes:

Styrolution PS ESCRimo is a high impact polystyrene grade with an improved stress cracking resistance compared to conventional high impact polystyrene. High ESCR resistance. Deep draw thermoforming. UL 94 HB. Information provided by Styrolution.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-ESCRimo-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	<= 0.10 % @Temperature 23.0 Â°C	<= 0.10 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	<= 0.10 % @Temperature 23.0 Â°C	<= 0.10 % @Temperature 73.4 Â°F	ISO 62
Melt Flow	3.4 g/10 min @Load 5.00 kg, Temperature 200 Â°C	3.4 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.0 MPa	3190 psi	ISO 527
Elongation at Break	50 %	50 %	ISO 527
Elongation at Yield	1.8 %	1.8 %	ISO 527
Tensile Modulus	1.55 GPa	225 ksi	ISO 527
Charpy Impact Unnotched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Vicat Softening Point	89.0 Â°C @Load 5.10 kg	192 Â°F @Load 11.2 lb	120Â°C/h; ASTM D 1525
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+18 ohm-cm	>= 1.00e+18 ohm-cm	IEC 60093

Surface Resistance Electrical Properties	$\geq 1.00e+13$ ohm Metric	$\geq 1.00e+13$ ohm English	IEC 60093 Comments
Dielectric Constant	2.5 @Frequency 100 Hz	2.5 @Frequency 100 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 Â°C	356 - 500 Â°F	ISO 294

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