

Styrolution Polystyrol ESCRimo PS

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

Material Notes:

Description: Polystyrol ESCRimo is a high-impact polystyrene grade with an improved stress cracking resistance compared to conventional high-impact polystyrene. **Applications:** Due to its superior environmental stress cracking resistance Polystyrol ESCRimo is in particular suitable for the refrigeration segment (inliner and doorliner). Because of its improved chemical resistance Polystyrol ESCRimo can also be used in food packaging applications. 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-ESCRimo-PS.php

Physical Properties	Metric	English	Comments
Density	1.029 g/cc	0.03717 lb/in ³	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62
Moisture Absorption at Equilibrium	<= 0.10 %	<= 0.10 %	23 ^o C/50% RH; ISO 62
Melt Flow	3.602 g/10 min @Load 5.00 kg, Temperature 200 ^o C	3.602 g/10 min @Load 11.0 lb, Temperature 392 ^o F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.0 MPa	3190 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	50 %	50 %	Nominal, 50mm/min; ISO 527-1/-2
Elongation at Yield	1.8 %	1.8 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	1.50 GPa	218 ksi	ISO 527-1/-2
Charpy Impact Unnotched	<= 14.0 J/cm ² @Temperature -30.0 ^o C	<= 66.6 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eU
	<= NB @Temperature 23.0 ^o C	<= NB @Temperature 73.4 ^o F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ² @Temperature -30.0 ^o C	3.33 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eA
	1.50 J/cm ² @Temperature 23.0 ^o C	7.14 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Vicat Softening Point	87.0 Â°C	189 Â°F	VST/B/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 3.20 mm	@Diameter 0.126 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 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	200 - 230 Â°C	392 - 446 Â°F	Plates
	180 - 260 Â°C	356 - 500 Â°F	Injection molding
	200 - 240 Â°C	392 - 464 Â°F	Flat film
Mold Temperature	10.0 - 60.0 Â°C	50.0 - 140 Â°F	Injection Molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding and Extrusion	
Surface Gloss	10	Skalenteile

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