

Styrolution PS 1290/1291 GPPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Extrusion Grade

Material Notes:

Extrusion / thermoforming foam sheet
Low residual styrene monomer content
High melt strength and stiffness
UL Classification 94 HB for 1290
Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-12901291-GPPS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D 792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D 955
Melt Flow	1.6 g/10 min @Load 5.00 kg, Temperature 200 °C	1.6 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	78	78	ASTM D 785
Tensile Strength, Yield	52.4 MPa	7600 psi	ASTM D 638
Elongation at Break	3.0 %	3.0 %	ASTM D 638
Tensile Modulus	3.17 GPa	460 ksi	ASTM D 638
Flexural Strength	107 MPa	15500 psi	ASTM D 790
Flexural Modulus	3.31 GPa	480 ksi	ASTM D 790
Izod Impact, Notched	0.214 J/cm	0.400 ft-lb/in	ASTM D 638

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D 696
Vicat Softening Point	109 °C @Load 1.02 kg	228 °F @Load 2.25 lb	120°C/h; ASTM D 1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Refractive Index	1.59	1.59	Sodium D Line; ASTM D 542
	88 - 90 %	88 - 90 %	

Optical Properties	Metric	English	Comments
Transmission Visible	@Wavelength 550 nm	@Wavelength 550 nm	ASTM D 1003
Electrical Properties	Metric	English	Comments
Dielectric Constant	2.5	2.5	ASTM D 150
	@Thickness 1.00 mm, Frequency 1.00e+6 Hz	@Thickness 0.0394 in, Frequency 1.00e+6 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D 696

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