

Styrolution PS 2600/2601 GPPS

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

Material Notes:

Foam extrusion Low residual styrene monomer content Moderate heat resistance Good balance of strength and ease of processing USP Class VI certified UL Classification 94 HB Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-26002601-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	3.4 g/10 min @Load 5.00 kg, Temperature 200 °C	3.4 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ASTM D 785
Tensile Strength, Yield	44.1 MPa	6400 psi	ASTM D 638
Elongation at Break	2.0 %	2.0 %	ASTM D 638
Tensile Modulus	3.17 GPa	460 ksi	ASTM D 638
Flexural Strength	82.7 MPa	12000 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	96.1 °C @Load 1.02 kg	205 °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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