

Cossa Polimeri ESTASTIR HI 1012 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

General purpose polystyrene High impact resistance, good melt flow rate, good flexibility Information provided by Cossa Polimeri S.r.l.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cossa-Polimeri-ESTASTIR-HI-1012-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 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	10 g/10 min @Load 5.00 kg, Temperature 200 °C	10 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	ASTM D 638
Tensile Strength, Yield	16.0 MPa	2320 psi	ASTM D 638
Elongation at Break	50 %	50 %	ASTM D 638
Flexural Modulus	2.00 GPa	290 ksi	ASTM D 790
Izod Impact, Notched	0.600 J/cm @Temperature 0.000 °C	1.12 ft-lb/in @Temperature 32.0 °F	ASTM D 638
	0.900 J/cm @Temperature 23.0 °C	1.69 ft-lb/in @Temperature 73.4 °F	ASTM D 256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	86.0 °C @Load 5.00 kg	187 °F @Load 11.0 lb	50°C/hr; ASTM D 1525
	95.0 °C @Load 0.999 kg	203 °F @Load 2.20 lb	50°C/hr; ASTM D 1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

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