

## Cossa Polimeri ESTASTIR HI 0412 Polystyrene

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

### Material Notes:

Polystyrene for injection molding or extrusion High impact resistance, good thermal resistance Information provided by Cossa Polimeri S.r.l.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Cossa-Polimeri-ESTASTIR-HI-0412-Polystyrene.php](http://www.lookpolymers.com/polymer_Cossa-Polimeri-ESTASTIR-HI-0412-Polystyrene.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D 792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D 955
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM D 638
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D 638
Elongation at Break	60 %	60 %	ASTM D 638
Flexural Modulus	1.90 GPa	276 ksi	ASTM D 790
Izod Impact, Notched	0.800 J/cm @Temperature 0.000 °C	1.50 ft-lb/in @Temperature 32.0 °F	ASTM D 638
	1.20 J/cm @Temperature 23.0 °C	2.25 ft-lb/in @Temperature 73.4 °F	ASTM D 256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	89.0 °C @Load 5.00 kg	192 °F @Load 11.0 lb	50°C/hr; ASTM D 1525
	98.0 °C @Load 0.999 kg	208 °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	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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