

Americas Styrenics EC6600 High Impact Polystyrene

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

Material Notes:

Product Characteristics: Excellent printability, Matte surface finish, High heat distortion temperature, Good low temperature toughness, Food

Contact Compliant Typical Applications: Lithographic sheet, Printed toys and games, Point of purchase displays, Silk screen

printing. Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-EC6600-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	2.0 g/10 min @Load 5.00 kg, Temperature 200 °C	2.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ASTM D785
Tensile Strength at Break	20.7 MPa	3000 psi	ASTM D638
Tensile Strength	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	1.24 GPa	180 ksi	ASTM D638
Flexural Strength	30.3 MPa	4400 psi	ASTM D790
Flexural Modulus	1.24 GPa	180 ksi	ASTM D790
Izod Impact, Notched	0.876 J/cm	1.64 ft-lb/in	compression molded; ASTM D256
	1.23 J/cm	2.30 ft-lb/in	injection molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	88.3 °C	191 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.2 °C	171 °F	ASTM D648
Vicat Softening Point	104 °C	219 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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