

Americas Styrenics EB6400 High Impact Polystyrene

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

Material Notes:

Product Characteristics Very good printability Matte surface finish High heat distortion temperature Good low temperature toughness Food Contact Compliant Typical Applications Packaging and one-time use items 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-EB6400-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	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength at Break	20.7 MPa	3000 psi	ASTM D638
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Elongation at Break	75 %	75 %	ASTM D638
Tensile Modulus	1.52 GPa	220 ksi	ASTM D638
Flexural Strength	29.6 MPa	4300 psi	ASTM D790
Flexural Modulus	1.52 GPa	220 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	compression molded; ASTM D256
	1.17 J/cm	2.20 ft-lb/in	injection molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	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)	79.4 °C	175 °F	ASTM D648
Vicat Softening Point	101 °C	213 °F	ASTM D1525

Thermal Properties

Metric

English

Comments

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