

Americas Styrenics EB6755 High Impact Polystyrene

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

Material Notes:

Product Characteristics Good Environmental Stress Crack Resistance (ESCR) Good practical toughness Deep draw thermoforming capable Good low temperature impact Food Contact Compliant Typical Applications Packaging for foods such as yogurt, sour cream, delicatessen salads and gravy Containers and lids Cold temperature packaging Portion dairy containers Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-EB6755-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	3.2 g/10 min @Load 5.00 kg, Temperature 200 °C	3.2 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	21.4 MPa	3100 psi	ASTM D638
Tensile Strength	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	75 %	75 %	ASTM D638
Tensile Modulus	1.45 GPa	210 ksi	ASTM D638
Flexural Strength	28.3 MPa	4100 psi	ASTM D790
Flexural Modulus	1.45 GPa	210 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	compression molded; ASTM D256
	1.44 J/cm	2.70 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)	89.4 °C	193 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.4 °C	175 °F	ASTM D648

Heat Capacity
Thermal Properties

101 °C
Metric

213 °F
English

ASTM D1695
Comments

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