

Americas Styrenics STYRON® 487 High Impact Polystyrene

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

Material Notes:

Product Characteristics Good Trimmability Toughness Heat resistance Food Contact Compliant UL Classification 94HB Typical

Applications Lids Appliances Packaging/disposables Housewares Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-487-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	2.8 g/10 min @Load 5.00 kg, Temperature 200 °C	2.8 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength at Break	27.6 MPa	4000 psi	ASTM D638
Tensile Strength	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	85 %	85 %	ASTM D638
Tensile Modulus	2.00 GPa	290 ksi	ASTM D638
Flexural Strength	34.5 MPa	5000 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	1.13 J/cm	2.12 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 µm/m-°C	50.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	91.7 °C	197 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.1 °C	178 °F	ASTM D648
Vicat Softening Point	104 °C	219 °F	ASTM D1525

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