

Americas Styrenics STYRON A-TECH® 1400AS High Impact Polystyrene

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

Material Notes:

Product Characteristics High Flow Good Impact Food Contact Compliant Typical Applications Television housings Printer Housings Consumer goods Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-A-TECH-1400AS-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	9.5 g/10 min @Load 5.00 kg, Temperature 200 °C	9.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength at Break	21.4 MPa	3100 psi	ASTM D638
Tensile Strength	22.1 MPa	3200 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Tensile Modulus	1.72 GPa	250 ksi	ASTM D638
Flexural Strength	31.0 MPa	4500 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	compression molded; ASTM D256
	1.07 J/cm	2.00 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)	87.8 °C	190 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172 °F	ASTM D648
Vicat Softening Point	100 °C	212 °F	ASTM D1525

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