

Americas Styrenics STYRON A-TECH® 1115 High Impact Polystyrene

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

Material Notes:

Product Characteristics High Gloss/High Impact Consistent colorability Easy processing Food Contact Compliant Typical

Applications Custom high Gloss Extruded Sheet Refrigeration accessories Small Appliances Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-A-TECH-1115-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	102.5	102.5	ASTM D785
Tensile Strength at Break	19.3 MPa	2800 psi	ASTM D638
Tensile Strength	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	1.83 GPa	265 ksi	ASTM D638
Flexural Strength	35.9 MPa	5200 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	compression molded; ASTM D256
	2.08 J/cm	3.90 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)	88.9 °C	192 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.3 °C	173 °F	ASTM D648
Vicat Softening Point	101 °C	214 °F	ASTM D1525

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