

Americas Styrenics STYRON® 421 High Impact Polystyrene

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

Material Notes:

Product Characteristics Stiffness/Flow Heat resistance Contact clarity Food Contact Compliant UL Classification 94HB Typical

Applications Appliances Refrigeration Packaging/disposables Consumer electronics Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-421-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	3.9 g/10 min @Load 5.00 kg, Temperature 200 °C	3.9 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	31.0 MPa	4500 psi	ASTM D638
Tensile Strength	33.8 MPa	4900 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	2.24 GPa	325 ksi	ASTM D638
Flexural Strength	43.4 MPa	6300 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	0.769 J/cm	1.44 ft-lb/in	compression molded; ASTM D256
	1.01 J/cm	1.90 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)	92.2 °C	198 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648
Vicat Softening Point	103 °C	218 °F	ASTM D1525

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