

Americas Styrenics Styron® XL-8028 High Impact Polystyrene (discontinued **)

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

Material Notes:

STYRON® XL-8028 high impact polystyrene is designed for VCR cassettes, toys, small appliances, telephones, housewares, tool items, computer consoles and bodies for computer cartridges. It offers high gloss and impact, processability of polystyrene and cost savings over ABS. When used unmodified for the manufacture of food contact articles STYRON XL-8028 complies with the US Food, Drug and Cosmetic Act and Food Additive Regulations 21 CFR 177.1640. The regulations should be consulted for complete details. Data provided by Dow Chemical. Americas Styrenics was formed in 2008 as a joint venture between Dow Chemical and Chevron Phillips Chemical Company. Styron was a Dow trade name before the JV formation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-Styron-XL-8028-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM Data
Melt Density	0.956 g/cc	0.0345 lb/in ³	Melt density
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	
Tensile Strength, Ultimate	21.0 MPa	3050 psi	ASTM Data
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM Data
Elongation at Break	51 %	51 %	ASTM Data
Elongation at Yield	1.4 %	1.4 %	ISO Data
Tensile Modulus	1.90 GPa	276 ksi	ASTM Data
Izod Impact, Notched	1.71 J/cm	3.20 ft-lb/in	ASTM Data
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO Data, Low Temp
	10.7 J/cm ²	50.9 ft-lb/in ²	ISO Data
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO Data, Low Temp
	1.80 J/cm ²	8.57 ft-lb/in ²	ISO Data

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM data
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	2.00 J/g- $^{\circ}\text{C}$	0.478 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.188 W/m-K	1.30 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	87.0 $^{\circ}\text{C}$	189 $^{\circ}\text{F}$	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	74.0 $^{\circ}\text{C}$	165 $^{\circ}\text{F}$	Unannealed; ASTM Data
Vicat Softening Point	102 $^{\circ}\text{C}$	216 $^{\circ}\text{F}$	
Flammability, UL94	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

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