

Americas Styrenics Styron® XL-8023VC High Impact Polystyrene (discontinued **)

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

Material Notes:

STYRON® XL-8023 VC high impact polystyrene is designed to provide molders of VCR cassettes with the impact and gloss they require, at economics and processability highly advantaged over ABS resins. When used unmodified for the manufacture of food contact articles STYRON XL-8023 VC 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-8023VC-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM Data
Melt Density	0.884 g/cc	0.0319 lb/in ³	Melt density
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	3.5 g/10 min @Load 5.00 kg, Temperature 200 °C	3.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	
Tensile Strength, Ultimate	28.0 MPa	4060 psi	ASTM Data
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM Data
Elongation at Break	30 %	30 %	ASTM Data
Elongation at Yield	1.9 %	1.9 %	ISO Data
Tensile Modulus	2.34 GPa	339 ksi	ASTM Data
Izod Impact, Notched	1.28 J/cm	2.40 ft-lb/in	ASTM Data
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO Data, Low Temp
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO Data
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO Data, Low Temp
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO Data

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	1.79 J/g- $^{\circ}\text{C}$	0.428 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.134 W/m-K	0.930 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	89.0 $^{\circ}\text{C}$	192 $^{\circ}\text{F}$	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	77.0 $^{\circ}\text{C}$	171 $^{\circ}\text{F}$	Unannealed; ASTM Data
Vicat Softening Point	105 $^{\circ}\text{C}$	221 $^{\circ}\text{F}$	
Flammability, UL94	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

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