

Americas Styrenics Styron® 6010 High Impact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant

Material Notes:

STYRON® 6010 resin is a high impact polystyrene grade with a proprietary ignition resistance additive package to achieve a UL 94 V-0 rating. It offers high heat resistance, high modulus, good impact strength and processability. 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-6010-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM Data
Melt Density	1.09 g/cc	0.0394 lb/in ³	Melt density
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	
Melt Flow	10.4 g/10 min @Load 5.00 kg, Temperature 200 °C	10.4 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	23.0 MPa	3340 psi	ASTM Data
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM Data
Elongation at Break	48 %	48 %	ASTM Data
Elongation at Yield	1.7 %	1.7 %	ISO Data
Tensile Modulus	1.97 GPa	286 ksi	ASTM Data
Izod Impact, Notched	1.28 J/cm	2.40 ft-lb/in	ASTM Data
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO Data, Low Temp
	6.00 J/cm ²	28.6 ft-lb/in ²	ISO Data
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO Data, Low Temp
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO Data

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 µm/m-°C @Temperature 20.0 °C	47.2 µin/in-°F @Temperature 68.0 °F	ISO data

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.168 W/m-K	1.17 BTU-in/hr-ft ² -°F	
Deflection Temperature at 0.46 MPa (66 psi)	78.0 °C	172 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	Unannealed; ASTM Data
Vicat Softening Point	92.0 °C	198 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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