

## Americas Styrenics Styron® 489M High Impact Polystyrene (discontinued \*\*)

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

### Material Notes:

STYRON® 489M high impact polystyrene resin is a high flow resin with excellent impact. When used unmodified for the manufacture of food contact articles STYRON 489M complies with the US Food, Drug and Cosmetic Act and Food Additive Regulation 21 CFR 177.1640. The regulation 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-489M-High-Impact-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Americas-Styrenics-Styron-489M-High-Impact-Polystyrene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM Data
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 200 °C	8.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	
Tensile Strength, Ultimate	18.0 MPa	2610 psi	ASTM Data
Tensile Strength, Yield	19.0 MPa	2760 psi	ASTM Data
Elongation at Break	50 %	50 %	ASTM Data
Elongation at Yield	1.1 %	1.1 %	ISO Data
Tensile Modulus	1.93 GPa	280 ksi	ASTM Data
Izod Impact, Notched	1.76 J/cm	3.30 ft-lb/in	ASTM Data
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	ISO Data, Low Temp
	11.0 J/cm <sup>2</sup>	52.4 ft-lb/in <sup>2</sup>	ISO Data
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO Data, Low Temp
	1.60 J/cm <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	ISO Data

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	ASTM data

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.0 °C	178 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	69.0 °C	156 °F	Unannealed; ASTM Data
Vicat Softening Point	97.0 °C	207 °F	
Flammability, UL94	HB @Thickness 3.10 mm	HB @Thickness 0.122 in	

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