

## Americas Styrenics Styron® 8100 MFD High Impact Polystyrene (discontinued \*\*)

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

### Material Notes:

STYRON 8100 MFD high impact polystyrene is designed for microfloppy diskettes (MFD) applications. It offers easy processing, coloring, abrasion resistance, impact strength, and high heat resistance. When used unmodified for the manufacture of food contact articles STYRON 8100 MFD 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-8100-MFD-High-Impact-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Americas-Styrenics-Styron-8100-MFD-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	3.6 g/10 min @Load 5.00 kg, Temperature 200 °C	3.6 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	
Tensile Strength, Ultimate	25.0 MPa	3630 psi	ASTM Data
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM Data
Elongation at Break	51 %	51 %	ASTM Data
Tensile Modulus	2.17 GPa	315 ksi	ASTM Data
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM Data

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	78.0 µm/m-°C @Temperature 20.0 °C	43.3 µin/in-°F @Temperature 68.0 °F	ASTM data
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	Unannealed; ASTM Data
Vicat Softening Point	104 °C	219 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 3.10 mm	@Thickness 0.122 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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