

Americas Styrenics Styron® 425 High Impact Polystyrene (discontinued **)

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

Material Notes:

STYRON® 425 impact polystyrene resin is typically used in thin section parts, hot drink cups and cassettes. It offers heat resistance, easy flow, fast cycling, and excellent tensile and flex properties. When used unmodified for the manufacture of food contact articles STYRON 425 complies with the US Food, Drug and Cosmetic Act and Food Additive Regulations 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-425-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM Data
Melt Density	0.965 g/cc	0.0349 lb/in ³	Melt density
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	12 g/10 min @Load 5.00 kg, Temperature 200 °C	12 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	29.0 MPa	4210 psi	ASTM Data
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM Data
Elongation at Break	30 %	30 %	ASTM Data
Tensile Modulus	3.03 GPa	439 ksi	ASTM Data
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM 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
Specific Heat Capacity	2.20 J/g-°C	0.526 BTU/lb-°F	
Thermal Conductivity	0.185 W/m-K	1.28 BTU-in/hr-ft ² -°F	
Deflection Temperature at 0.46 MPa (66 psi)	86.0 °C	187 °F	Unannealed; ASTM Data

Thermal Properties Tensile Strength at 1.8 MPa (264 psi)	Metric 180 °C	English 170 °F	Comments Unannealed; ASTM Data
Vicat Softening Point	100 °C	212 °F	
Flammability, UL94	HB @Thickness 3.10 mm	HB @Thickness 0.122 in	

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