

Americas Styrenics Styron® 615APR Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

STYRON® 615 APR is a general purpose easy flow resin typically used for medical, pharmaceutical and thin-walled parts. It is an excellent resin for blending with K-Resin (K-Resin is a trademark of Phillips 66 Company). When used unmodified for the manufacture of food contact articles STYRON 615 APR 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-615APR-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM Data
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 200 °C	14 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	44.1 MPa	6400 psi	ASTM Data
Tensile Strength, Yield	44.1 MPa	6400 psi	ASTM Data
Elongation at Break	1.5 %	1.5 %	ASTM Data
Tensile Modulus	2.87 GPa	416 ksi	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
Deflection Temperature at 0.46 MPa (66 psi)	88.3 °C	191 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	75.6 °C	168 °F	Unannealed; ASTM Data
	90.0 °C	194 °F	Annealed; ASTM Data
Vicat Softening Point	101 °C	214 °F	
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	
Transmission, Visible	90 %	90 %	

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