

Ineos Styrenics 495F High-Impact Polystyrene Resin (Global)

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

Material Notes:

Description: High-impact, high-flow grade for a wide variety of applications, including appliance components, consumer electronics housings, magnetic and optical media, building and construction, packaging and food service, recreation equipment and sporting goods, medical devices and labware, office products, cosmetic and personal care products, and housewares. Information provided by BASF. Ineos Styrenics purchased this product line from BASF in 2005.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ineos-Styrenics-495F-High-Impact-Polystyrene-Resin-Global.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	<= 0.10 %	<= 0.10 %	23 ^o C/50% RH
Water Absorption at Saturation	<= 0.10 %	<= 0.10 %	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 200 ^o C	8.0 g/10 min @Load 11.0 lb, Temperature 392 ^o F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	55	55	ASTM D785
Tensile Strength at Break	20.0 MPa	2900 psi	ASTM D638
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM D638
Elongation at Break	55 %	55 %	ASTM D638
Tensile Modulus	2.137 GPa	310.0 ksi	ASTM D638
Flexural Modulus	1.655 GPa	240.0 ksi	ASTM D790-1
Izod Impact, Notched	1.23 J/cm	2.30 ft-lb/in	ASTM D256-A
Gardner Impact	31.6 J @Thickness 3.17 mm, Temperature 23.0 ^o C	23.3 ft-lb @Thickness 0.125 in, Temperature 73.4 ^o F	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	79.0 ^o C	174 ^o F	ASTM D648

Vicat Softening Point Thermal Properties	97.0 Â°C Metric	207 Â°F English	ASTM D1525 Comments
Flammability, UL94	HB @Thickness 1.62 mm	HB @Thickness 0.0638 in	HB CSA 0.6, All Colors
	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	HB UL94, All Colors

Optical Properties	Metric	English	Comments
Gloss	45 %	45 %	60Â°; ASTM D523

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 280 Â°C	356 - 536 Â°F	Molding

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