

Ineos Styrenics Avantra® 594E High Impact Styrenic Polymer (NAFTA)

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

Material Notes:

Description: Avantra® 594E is a super high-impact polystyrene grade that delivers excellent processing efficiency along with toughness and high gloss in a wide variety of injection molding applications such as consumer electronics, office equipment, building & construction, housewares, office products, cosmetics & personal care products, recreation equipment & sporting goods, toys, and furniture & furnishings. 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-Avantra-594E-High-Impact-Styrenic-Polymer-NAFTA.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°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 °C	8.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	55	55	ASTM D785
Tensile Strength at Break	17.0 MPa	2470 psi	ASTM D638
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	2.068 GPa	299.9 ksi	ASTM D638
Flexural Modulus	2.275 GPa	330.0 ksi	ASTM D790-1
Izod Impact, Notched	1.82 J/cm	3.40 ft-lb/in	ASTM D256-A
Gardner Impact	36.2 J @Thickness 3.17 mm, Temperature 23.0 °C	26.7 ft-lb @Thickness 0.125 in, Temperature 73.4 °F	ASTM D5420, GB

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

Vicat Softening Point Thermal Properties	97.0 Â°C Metric	207 Â°F English	ASTM D1525 Comments
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	all colors

Optical Properties	Metric	English	Comments
Gloss	70 %	70 %	60Â°; ASTM D523

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

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