

Ineos Styrenics Avantra® 525K High Impact Styrenic Polymer (NAFTA)

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

Material Notes:

Description: Specialty and super-high impact grades for a variety of applications such as refrigerator liners, consumer electronics housings, recreation equipment and sporting goods, toys, office products, cosmetics and personal care products, building and construction, housewares, and furniture and 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-525K-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 ^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	3.6 g/10 min @Load 5.00 kg, Temperature 200 ^o C	3.6 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	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Tensile Modulus	2.206 GPa	320.0 ksi	ASTM D638
Flexural Modulus	1.931 GPa	280.1 ksi	ASTM D790-1
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D256-A
Gardner Impact	5.65 J @Thickness 3.17 mm, Temperature 23.0 ^o C	4.17 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)	85.0 ^o C	185 ^o F	ASTM D648
Vicat Softening Point	101 ^o C	214 ^o F	ASTM D1525

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.54 mm	@Thickness 0.0606 in	HB CSA 0.6, Natural
	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	HB UL94, All Colors

Optical Properties	Metric	English	Comments
Gloss	95 %	95 %	60°; ASTM D523

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	Extrusion

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