

Ineos Styrenics Avantra® 585K Rubber Modified Polystyrene

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

Material Notes:

Avantra® 585K is a high-impact grade of polystyrene with extremely high surface gloss and excellent practical impact strength. Although Avantra® 585K can be processed by any method applicable to polystyrene-based plastics, it is primarily used for injection molding and extrusion/thermoforming. When impact resistance and high gloss are the primary requirements, Avantra® 585K has the appearance and toughness that make it a suitable replacement for medium impact ABS. These characteristics are displayed over a relatively wide processing window. Typical applications include toys, cosmetic packaging, small appliance housings, refrigerator accessory parts and point of purchase displays.Information provided by Ineos Styrenics.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-585K-Rubber-Modified-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	ASTM D792
Water Absorption at Saturation	<= 0.10 %	<= 0.10 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	3.6 g/10 min	3.6 g/10 min	
Melt Flow	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	55	55	ASTM D785
Tensile Strength, Ultimate	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Tensile Modulus	2.14 GPa	310 ksi	ASTM D638
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790-1
Izod Impact, Notched	1.28 J/cm	2.40 ft-lb/in	ASTM D256-A
Gardner Impact	28.2 J	20.8 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ASTM D648
Vicat Softening Point	101 °C	214 °F	ASTM D1525



Thermal Properties	Metric	English	Comments
Transmassinty, OE34	@Thickness 1.50 mm	@Thickness 0.0591 in	Sona, An Soloi

Optical Properties	Metric	English	Comments
Gloss	90 %	90 %	60°; ASTM D523

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	ASTM D257
	0.5		
	2.5	2.5	
Dielectric Constant	@Frequency 100 - 1.00e+6 Hz	@Frequency 100 - 1.00e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 °C	410 - 464 °F	Extrusion
	180 - 280 °C	356 - 536 °F	Molding

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