

Ineos Styrenics Avantra® 2710 High Impact Styrenic Polymer (Global)

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

Material Notes:

Description: Avantra® 2710 is a high-impact grade of polystyrene with improved stress crack resistance, developed primarily for extrusion and thermoforming applications, especially for the refrigerator industry. 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-2710-High-Impact-Styrenic-Polymer-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°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	2.6 g/10 min @Load 5.00 kg, Temperature 200 °C	2.6 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	42	42	ASTM D785
Tensile Strength at Break	23.0 MPa	3340 psi	ASTM D638
Tensile Strength, Yield	17.0 MPa	2470 psi	ASTM D638
Elongation at Break	65 %	65 %	ASTM D638
Tensile Modulus	1.655 GPa	240.0 ksi	ASTM D638
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790-1
Izod Impact, Notched	1.23 J/cm	2.30 ft-lb/in	ASTM D256-A
Gardner Impact	20.3 J @Thickness 3.17 mm, Temperature 23.0 °C	15.0 ft-lb @Thickness 0.125 in, Temperature 73.4 °F	ASTM D3029

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
	HB	HB	White
	@Thickness 1.10 mm	@Thickness 0.0433 in	

Optical Properties	Metric	English	Comments
Gloss	10 %	10 %	60°; ASTM D523

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+13 ohm-cm	1.30e+13 ohm-cm	ASTM D257
Dielectric Strength	44.4 kV/mm	1130 kV/in	ASTM D149

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

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