

Ineos Styrenics Polystyrene 147F (NAFTA)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

An easy flow, general purpose polystyrene. Has moderate heat resistance and strength for general molding and extrusion applications. 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-Polystyrene-147F-NAFTA.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	9.0 g/10 min @Load 5.00 kg, Temperature 200 °C	9.0 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	74	74	ASTM D785
Tensile Strength, Ultimate	41.0 MPa	5950 psi	
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	2.45 GPa	355 ksi	
Flexural Modulus	3.07 GPa	445 ksi	
Izod Impact, Notched	0.700 J/cm @Temperature -30.0 °C	1.31 ft-lb/in @Temperature -22.0 °F	ASTM D256/ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	
Vicat Softening Point	102 °C	216 °F	
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

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