

Ineos Styrenics Polystyrene 145D (NAFTA)

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

Material Notes:

A high flow, general purpose polystyrene, offering exceptional processing characteristics for thin wall parts, multi-cavity tools, and complex designs. 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-145D-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	14 g/10 min @Load 5.00 kg, Temperature 200 Â°C	14 g/10 min @Load 11.0 lb, Temperature 392 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	74	74	ASTM D785
Tensile Strength, Ultimate	40.0 MPa	5800 psi	
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	2.38 GPa	345 ksi	
Flexural Modulus	3.03 GPa	439 ksi	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Â°C	172 Â°F	
Vicat Softening Point	96.0 Â°C	205 Â°F	
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	Extrusion
	180 - 280 Â°C	356 - 536 Â°F	Molding

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