

Ineos Styrenics 158K High-Heat Polystyrene Crystal Resin (Global)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

Description: High-heat, high-molecular weight grades for a variety of applications, including medical devices and labware, cosmetics packaging, CD & DVD jewel boxes, food serveware, and low-taste, low-odor products such as cook and cake trays as well as other oriented polystyrene (OPS) 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-158K-High-Heat-Polystyrene-Crystal-Resin-Global.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	3.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	76	76	ASTM D785
Tensile Strength at Break	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	2.52 GPa	366 ksi	ASTM D638
Flexural Modulus	3.24 GPa	470 ksi	ASTM D790-1
Izod Impact, Notched	0.160 J/cm	0.300 ft-lb/in	ASTM D256-A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C	201 Â°F	ASTM D648
Vicat Softening Point	109 Â°C	228 Â°F	ASTM D1525
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	All Colors

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

Processing Properties	Metric	English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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