

SABIC Innovative Plastics LNP THERMOCOMP EX00781H PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* THERMOCOMP* EX00781H is a compound based on Polyetherimide containng Proprietary Filler(s). Added feature of this material is: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EX00781H-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Melt Flow	12.3 g/10 min @Load 6.60 kg, Temperature 337 Â°C	12.3 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 340 Â°C	10 g/10 min @Load 11.0 lb, Temperature 644 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	89.0 MPa	12900 psi	5 mm/min; ISO 527
	90.0 MPa	13100 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	91.0 MPa	13200 psi	Type I, 5 mm/min; ASTM D638
	91.0 MPa	13200 psi	5 mm/min; ISO 527
Elongation at Break	5.3 %	5.3 %	Type I, 5 mm/min; ASTM D638
	6.0 %	6.0 %	5 mm/min; ISO 527
Elongation at Yield	5.5 %	5.5 %	5 mm/min; ISO 527
	5.9 %	5.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.25 GPa	471 ksi	1 mm/min; ISO 527
	3.32 GPa	482 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	145 MPa	21000 psi	1.3 mm/min, 50 mm span; ASTM D790
	148 MPa	21500 psi	2 mm/min; ISO 178
	3.15 GPa	457 ksi	1.3 mm/min, 50 mm span; ASTM

Flexural Modulus Mechanical Properties	Metric	English	0790 Comments
	3.31 GPa	480 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	189 Â°C	372 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	189 Â°C	372 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	213 Â°C	415 Â°F	Rate B/120; ISO 306

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