

SABIC Innovative Plastics LNP THERMOCOMP EX06430H PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* THERMOCOMP* EX06430H is a compound based on Polyetherimide resin containing Proprietary Filler(s). Added feature of this grade is: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EX06430H-PEI.php

Physical Properties	Metric	English	Comments
Density	1.34 - 1.40 g/cc	0.0484 - 0.0506 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ASTM D638
	90.0 MPa	13100 psi	ISO 527
Tensile Strength, Yield	106 MPa	15400 psi	ISO 527
	110 MPa	16000 psi	ASTM D638
Elongation at Break	10.8 %	10.8 %	ISO 527
	13.5 %	13.5 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ISO 527
	6.7 %	6.7 %	ASTM D638
Tensile Modulus	3.50 GPa	508 ksi	1 mm/min; ISO 527
	3.66 GPa	531 ksi	50 mm/min; ASTM D638
Flexural Strength	133 MPa	19300 psi	ISO 178
Flexural Modulus	3.50 GPa	508 ksi	ISO 178
	3.66 GPa	531 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.83 J/cm	25.91 ft-lb/in	ASTM D4812

Mechanical Properties (ISO)	Metric J/m^2	English lb/in^2	Comments ISO 180/1A
Izod Impact, Unnotched (ISO)	73.0 kJ/m^2	34.7 ft-lb/in^2	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	194 $^{\circ}\text{C}$	381 $^{\circ}\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	195 $^{\circ}\text{C}$ @Thickness 3.20 mm	383 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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