

SABIC Innovative Plastics LNP THERMOCOMP EX93452 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP THERMOCOMP* EX93452 is a compound based on Polyetherimide resin containing Proprietary Fillers. Added features of this material include: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EX93452-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.240 %	0.240 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00020 - 0.00040 cm/cm	0.00020 - 0.00040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	205 MPa	29700 psi	5 mm/min; ISO 527
	214 MPa	31000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.4 %	1.4 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	18.5 GPa	2680 ksi	1 mm/min; ISO 527
	19.86 GPa	2880 ksi	50 mm/min; ASTM D638
Flexural Strength	281 MPa	40800 psi	1.3 mm/min, 50 mm span; ASTM D790
	283 MPa	41000 psi	ISO 178
Flexural Modulus	16.5 GPa	2390 ksi	1.3 mm/min, 50 mm span; ASTM D790
	17.06 GPa	2474 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.520 J/cm	0.974 ft-lb/in	ASTM D256

Mechanical Properties ¹	Metric ¹	English ¹	Comments ²
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/m ²	13.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 Âµm/m-Â°C	16.1 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	27.0 Âµm/m-Â°C	15.0 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	219 Â°C	426 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	219 Â°C @Thickness 3.20 mm	426 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	214 Â°C	417 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	214 Â°C @Thickness 3.20 mm	417 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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