

SABIC Innovative Plastics LNP THERMOCOMP PDXE98480 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Thermocomp* PDXE98480 is a compound based on Polyetherimide with Proprietary Fillers. Added feature of this grade: Reinforced.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PDXE98480-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM D792
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.170 %	0.170 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	162 MPa	23500 psi	5 mm/min; ISO 527
	180 MPa	26100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	14.22 GPa	2062 ksi	1 mm/min; ISO 527
	15.1 GPa	2190 ksi	5 mm/min; ASTM D638
Flexural Strength	243 MPa	35200 psi	ISO 178
	254 MPa	36800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.79 GPa	1855 ksi	2 mm/min; ISO 178
	13.4 GPa	1940 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.920 J/cm	1.72 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.00 J/cm	9.37 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	33.0 kJ/m ²	15.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	16.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	92.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	51.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	213 Â°C	415 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	213 Â°C @Thickness 3.20 mm	415 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C	406 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	208 Â°C @Thickness 3.20 mm	406 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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