

SABIC Innovative Plastics LNP THERMOCOMP GX05482 PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

LNP* THERMOCOMP* GX05482 is a compound based on Polysulfone resin containing 30% Glass Fiber. Added features of this material include: Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-GX05482-PSU.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Moisture Absorption	0.160 %	0.160 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	104 MPa	15100 psi	5 mm/min; ISO 527
	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.72 GPa	1260 ksi	1 mm/min; ISO 527
	9.14 GPa	1330 ksi	50 mm/min; ASTM D638
Flexural Strength	162 MPa	23500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	163 MPa	23600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.05 GPa	1170 ksi	2 mm/min; ISO 178
	8.66 GPa	1260 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	4.51 J/cm	8.45 ft-lb/in	ASTM D4812
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)	27.0 kJ/m ²	12.8 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	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.6 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	25.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	40.6 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	175 Â°C	347 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	175 Â°C @Thickness 3.20 mm	347 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	171 Â°C	340 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	171 Â°C @Thickness 3.20 mm	340 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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