

SABIC Innovative Plastics LNP THERMOCOMP 9X11427

Category : Polymer , Thermoplastic

Material Notes:

LNP* THERMOCOMP* 9X11427 is a compound based on Miscellanbeous resin containing 40% specialty glass filled TP alloy. Added features of this grade include: Ultra-Stiff Toughness, Improved Impact, Good Flow for Thin Wall molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-9X11427.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
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	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	141 MPa	20500 psi	5 mm/min; ISO 527
	150 MPa	21800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	14.3 GPa	2070 ksi	1 mm/min; ISO 527
	14.6 GPa	2120 ksi	5 mm/min; ASTM D638
Flexural Strength	219 MPa	31800 psi	ISO 178
	227 MPa	32900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	229 MPa	33200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.32 GPa	1787 ksi	2 mm/min; ISO 178
	12.9 GPa	1870 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.59 J/cm	2.98 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 °C	8.11 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 μm/m-°C @Temperature -30.0 - 30.0 °C	19.4 μin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	68.0 μm/m-°C @Temperature -30.0 - 30.0 °C	37.8 μin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	220 °C @Thickness 3.20 mm	428 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	198 °C	388 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	201 °C @Thickness 3.20 mm	394 °F @Thickness 0.126 in	unannealed; ASTM D648

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