

SABIC Innovative Plastics LNP THERMOCOMP HX03409C PA11

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

LNP* THERMOCOMP* HX03409C is a compound based on Nylon 11 resin containing Proprietary Filler(s). Added features of this material include: Clean Compound System, High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-HX03409C-PA11.php

Physical Properties	Metric	English	Comments
Density	2.24 g/cc	0.0809 lb/in ³	ISO 1183
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	33.0 MPa	4790 psi	50 mm/min; ISO 527
Elongation at Break	42 %	42 %	50 mm/min; ISO 527
Tensile Modulus	1.50 GPa	218 ksi	1 mm/min; ISO 527
Flexural Yield Strength	51.0 MPa	7400 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	75.0 kJ/m ²	35.7 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	136 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	75.6 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	110 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	61.1 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	146 Â°C	295 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Â°C	122 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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