

SABIC Innovative Plastics LNP THERMOCOMP SF008 PA 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

LNP* THERMOCOMP* SF008 is a compound based on Nylon 12 resin containing 40% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-SF008-PA-12.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0018 cm/cm	0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0073 cm/cm	0.0073 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	ASTM D638
	152 MPa	22000 psi	ISO 527
Elongation at Break	9.0 %	9.0 %	ISO 527
	10.5 %	10.5 %	ASTM D638
Tensile Modulus	8.27 GPa	1200 ksi	50 mm/min; ASTM D638
	8.76 GPa	1270 ksi	1 mm/min; ISO 527
Flexural Strength	96.0 MPa	13900 psi	ASTM D790
	213 MPa	30900 psi	ISO 178
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
	9.00 GPa	1310 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	14.41 J/cm	27.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 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
Deflection Temperature at 0.46 MPa (66 psi)	176 Â°C @Thickness 3.20 mm	349 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	166 Â°C	331 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	170 Â°C @Thickness 3.20 mm	338 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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