

SABIC Innovative Plastics LNP THERMOCOMP PF008S PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PF008S is a compound based on Nylon 6 resin containing 40% Glass Fiber. Added features of this material include:
Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PF008S-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Moisture Absorption	0.980 %	0.980 %	50% RH, 24 hrs; ASTM D570
	1.26 %	1.26 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	183 MPa	26500 psi	ASTM D638
	186 MPa	27000 psi	ISO 527
Elongation at Break	3.3 %	3.3 %	ISO 527
	3.3 %	3.3 %	ASTM D638
Tensile Modulus	12.67 GPa	1838 ksi	50 mm/min; ASTM D638
	12.99 GPa	1884 ksi	1 mm/min; ISO 527
Flexural Strength	278 MPa	40300 psi	ISO 178
	278 MPa	40300 psi	ASTM D790

Flexural Modulus Mechanical Properties	9.25 GPa Metric	1340 ksi English	ASTM D790 Comments
	9.53 GPa	1380 ksi	ISO 178
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	92.0 kJ/m ²	43.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	25.0 J	18.4 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	21.0 J	15.5 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C	406 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	195 Â°C @Thickness 3.20 mm	383 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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