

SABIC Innovative Plastics LNP THERMOCOMP PF006S PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PF006S is a compound based on Nylon 6 resin containing 30% 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-PF006S-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Moisture Absorption	0.860 %	0.860 %	50% RH, 24 hrs; ASTM D570
	1.53 %	1.53 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0017 - 0.0050 cm/cm	0.0017 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	128 MPa	18600 psi	ISO 527
	129 MPa	18700 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
	2.9 %	2.9 %	ISO 527
Tensile Modulus	8.58 GPa	1240 ksi	1 mm/min; ISO 527
	8.75 GPa	1270 ksi	50 mm/min; ASTM D638
Flexural Strength	201 MPa	29200 psi	ASTM D790
	204 MPa	29600 psi	ISO 178

Flexural Modulus Mechanical Properties	6.96 GPa Metric	1010 ksi English	ASTM D790 Comments
	7.97 GPa	1160 ksi	ISO 178
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.54 J/cm	16.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	55.0 kJ/mÂ²	26.2 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; 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	30.5 Âµm/m-Â°C	16.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	30.6 Âµm/m-Â°C	17.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	67.2 Âµm/m-Â°C	37.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	67.3 Âµm/m-Â°C	37.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	219 Â°C	426 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	203 Â°C	397 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	206 Â°C	403 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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