

SABIC Innovative Plastics LNP THERMOCOMP PFW64 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* THERMOCOMP* PFW64 is a compound based on Nylon 6 resin containing 20% Glass Fiber, 30% Wollastonite.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PFW64-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ASTM D792
	1.63 g/cc	0.0589 lb/in ³	ISO 1183
Moisture Absorption	0.750 %	0.750 %	50% RH, 24 hrs; ASTM D570
	0.980 %	0.980 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	133 MPa	19300 psi	5 mm/min; ISO 527
	135 MPa	19600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	11.48 GPa	1665 ksi	1 mm/min; ISO 527
	12.3 GPa	1780 ksi	50 mm/min; ASTM D638
Flexural Strength	169 MPa	24500 psi	1.3 mm/min, 50 mm span; ASTM D790
	195 MPa	28300 psi	ISO 178
Flexural Modulus	9.23 GPa	1340 ksi	1.3 mm/min, 50 mm span; ASTM D790
	10.62 GPa	1540 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched	8.07 J/cm	15.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	33.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	18.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	72.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	40.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C	424 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	216 Â°C @Thickness 3.20 mm	421 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	201 Â°C	394 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	203 Â°C @Thickness 3.20 mm	397 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China