

SABIC Innovative Plastics LNP THERMOCOMP JF002 PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP THERMOCOMP* JF002 is a compound based on Polyethersulfone resin containing 10% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF002-PES.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption	0.510 %	0.510 %	50% RH, 24 hrs; ASTM D570
	0.850 %	0.850 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	102 MPa	14800 psi	Type I, 5 mm/min; ASTM D638
	102 MPa	14800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	103 MPa	14900 psi	5 mm/min; ISO 527
	105 MPa	15200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527
	5.4 %	5.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.3 %	4.3 %	5 mm/min; ISO 527
	4.4 %	4.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.42 GPa	641 ksi	1 mm/min; ISO 527
	4.68 GPa	679 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	176 MPa	25500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.06 GPa	589 ksi	2 mm/min; ISO 178

Mechanical Properties	4.37 GPa Metric	634 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.39 J/cm	15.7 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
Izod Impact, Unnotched (ISO)	54.0 kJ/m ²	25.7 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.1 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	20.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $^{\circ}\text{C}$	@Temperature -22.0 - 86.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	44.1 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	24.5 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $^{\circ}\text{C}$	@Temperature -22.0 - 86.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	221 $^{\circ}\text{C}$	430 $^{\circ}\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	220 $^{\circ}\text{C}$ @Thickness 3.20 mm	428 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	212 $^{\circ}\text{C}$	414 $^{\circ}\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	214 $^{\circ}\text{C}$ @Thickness 3.20 mm	417 $^{\circ}\text{F}$ @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