

SABIC Innovative Plastics LNP THERMOCOMP JF002R PES (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* Thermocomp* JF002R is a compound based on Polyethersulfone resin containing Glass Fiber, Glass Bead. Added features of this material include: Mold Release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF002R-PES-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	83.0 MPa	12000 psi	5 mm/min; ISO 527
Elongation at Yield	4.5 %	4.5 %	5 mm/min; ISO 527
Tensile Modulus	3.50 GPa	508 ksi	1 mm/min; ISO 527
Flexural Strength	74.0 MPa	10700 psi	2 mm/min; ISO 178
Flexural Yield Strength	133 MPa	19300 psi	2 mm/min; ISO 178
Flexural Modulus	3.20 GPa	464 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 $\mu\text{m}/\text{m}\cdot\text{C}$	23.9 $\mu\text{in}/\text{in}\cdot\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $^{\circ}\text{C}$	@Temperature 73.4 - 140 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	55.0 $\mu\text{m}/\text{m}\cdot\text{C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $^{\circ}\text{C}$	@Temperature 73.4 - 140 $^{\circ}\text{F}$	
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
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

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