

SABIC Innovative Plastics LNP THERMOCOMP JF008E PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* THERMOCOMP* JF008E is a compound based on Polyethersulfone containing 40% Glass Fiber. Characteristics of this grade are: Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF008E-PES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ASTM D792
Moisture Absorption	0.320 %	0.320 %	50% RH, 24 hrs; ASTM D570
	0.490 %	0.490 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 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	146 MPa	21200 psi	5 mm/min; ISO 527
	152 MPa	22000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	146 MPa	21200 psi	5 mm/min; ISO 527
	152 MPa	22000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.5 %	1.5 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	13.76 GPa	1996 ksi	1 mm/min; ISO 527
	15.38 GPa	2231 ksi	50 mm/min; ASTM D638
Flexural Strength	207 MPa	30000 psi	ISO 178
	208 MPa	30200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength			1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	209 MPa Metric	30300 psi English	D790 Comments
Flexural Modulus	12.17 GPa	1765 ksi	2 mm/min; ISO 178
	12.29 GPa	1783 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.770 J/cm	1.44 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.68 J/cm	10.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m ²	16.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 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	5.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	2.78 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	1.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	0.556 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	231 Â°C	448 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	212 Â°C @Thickness 3.20 mm	414 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	211 Â°C	412 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	207 Â°C @Thickness 3.20 mm	405 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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