

LNP Thermocomp® JF-1006 E LE BK8-055 Polyethersulfone, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Features: High Viscosity, Low Extractables
Forms: Pellets
Processing Method: Injection Molding
Information provided by LNP, a GE Plastics Company. This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Thermocomp-JF-1006-E-LE-BK8-055-Polyethersulfone-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	Method A; ASTM D792
Water Absorption	0.30 %	0.30 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	113 MPa	16400 psi	ASTM D638
Tensile Strength, Yield	113 MPa	16400 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Elongation at Yield	1.8 %	1.8 %	ASTM D638
Tensile Modulus	9.79 GPa	1420 ksi	ASTM D638
Flexural Strength	172 MPa	24900 psi	ASTM D790
Flexural Modulus	9.24 GPa	1340 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Thickness 3.18 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	4.32 J/cm @Thickness 3.18 mm	8.09 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	6.80 kJ/m ²	3.24 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	29.9 kJ/m ²	14.2 ft-lb/in ²	ISO 180
Falling Dart Impact	12.8 J	9.44 ft-lb	ASTM D3763

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	29.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	16.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	36.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	218 $^{\circ}\text{C}$	424 $^{\circ}\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	212 $^{\circ}\text{C}$	414 $^{\circ}\text{F}$	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	354 - 371 $^{\circ}\text{C}$	669 - 700 $^{\circ}\text{F}$	
Mold Temperature	135 - 149 $^{\circ}\text{C}$	275 - 300 $^{\circ}\text{F}$	
Drying Temperature	121 - 149 $^{\circ}\text{C}$	250 - 300 $^{\circ}\text{F}$	
Dry Time	4 hour	4 hour	
Moisture Content	0.050 %	0.050 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

Descriptive Properties	Value	Comments
Color	Black	

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