

LNP Thermocomp® FP-VC-1003 BK8-019 Polyvinylidene Fluoride, Carbon Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), with Carbon Fiber

Material Notes:

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-FP-VC-1003-BK8-019-Polyvinylidene-Fluoride-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.76 g/cc	1.76 g/cc	Method A; ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.013 cm/cm	0.010 - 0.013 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	77.9 MPa	11300 psi	ASTM D638
Tensile Strength, Yield	77.9 MPa	11300 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ASTM D638
Elongation at Yield	0.80 %	0.80 %	ASTM D638
Tensile Modulus	14.3 GPa	2070 ksi	ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	11.8 GPa	1710 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	2.03 J/cm @Thickness 3.18 mm	3.80 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	14.6 kJ/m ²	6.95 ft-lb/in ²	ISO 180
Falling Dart Impact	11.4 J	8.41 ft-lb	ASTM D3763
Impact Test	3.01 J	2.22 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear	31.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	17.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	85.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	47.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	166 $^{\circ}\text{C}$	331 $^{\circ}\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	159 $^{\circ}\text{C}$	318 $^{\circ}\text{F}$	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	218 - 232 $^{\circ}\text{C}$	424 - 450 $^{\circ}\text{F}$	
Mold Temperature	65.6 - 93.3 $^{\circ}\text{C}$	150 - 200 $^{\circ}\text{F}$	
Drying Temperature	121 - 149 $^{\circ}\text{C}$	250 - 300 $^{\circ}\text{F}$	
Dry Time	4 hour	4 hour	
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

Descriptive Properties	Value	Comments
Color	Black	

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