

SABIC Innovative Plastics LNP THERMOCOMP 2F004 FP-E (EFTE)

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

Material Notes:

LNP* FP-EF-1004 is a fluoropolymer compound based on ETFE resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2F004-FP-E-EFTE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 g/cc	1.85 g/cc	ASTM D792
Density	1.84 g/cc	0.0665 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	23°C / 50% RH; ISO 62
	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D638
	51.0 MPa	7400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	52.0 MPa	7540 psi	5 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	9.8 %	9.8 %	5 mm/min; ISO 527
	10.7 %	10.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	9.1 %	9.1 %	5 mm/min; ISO 527
	9.4 %	9.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.40 GPa	638 ksi	1 mm/min; ISO 527
	4.86 GPa	705 ksi	5 mm/min; ASTM D638
Flexural Strength	72.0 MPa	10400 psi	ISO 178
Flexural Modulus	3.78 GPa	548 ksi	2 mm/min; ISO 178
	4.02 GPa	583 ksi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	0790 Comments
Izod Impact, Notched	5.51 J/cm	10.3 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.6 J/cm	27.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	96.0 kJ/m ²	45.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	21.0 J	15.5 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact Test	10.0 J	7.38 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.0 Âµm/m-Â°C	32.8 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	76.0 Âµm/m-Â°C	42.2 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	219 Â°C	426 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	240 Â°C	464 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	112 Â°C	234 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	132 Â°C	270 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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