

SABIC Innovative Plastics LNP THERMOCOMP 2F006 ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

Material Notes:

LNP* THERMOCOMP* 2F006 is a compound based on ETFE containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2F006-ETFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 g/cc	1.90 g/cc	ASTM D792
Density	1.91 g/cc	0.0690 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	5 mm/min; ISO 527
	79.0 MPa	11500 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	75.0 MPa	10900 psi	5 mm/min; ISO 527
	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527
	5.2 %	5.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.6 %	4.6 %	5 mm/min; ISO 527
	4.9 %	4.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.08 GPa	1170 ksi	1 mm/min; ISO 527
	8.93 GPa	1300 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	115 MPa	16700 psi	2 mm/min; ISO 178
	117 MPa	17000 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	7.52 GPa Metric	1090 ksi English	2 mm/min: ISO 178 Comments
	7.64 GPa	1110 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	3.44 J/cm	6.44 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.4 J/cm	19.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	67.0 kJ/m ²	31.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	8.00 J	5.90 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	14.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	75.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	41.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	246 Â°C	475 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	254 Â°C @Thickness 3.20 mm	489 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	187 Â°C	369 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	215 Â°C @Thickness 3.20 mm	419 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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