

SABIC Innovative Plastics LNP THERMOCOMP 2F005 ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

Material Notes:

LNP* Thermocomp* 2F005 is a fluoropolymer compound based on ETFE containing 25% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2F005-ETFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.87 g/cc	1.87 g/cc	ASTM D792
Density	1.87 g/cc	0.0676 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23 [°] C / 50% RH; ISO 62
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	59.0 MPa	8560 psi	Type I, 5 mm/min; ASTM D638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Tensile Strength, Yield	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
	61.0 MPa	8850 psi	5 mm/min; ISO 527
Elongation at Break	7.0 %	7.0 %	5 mm/min; ISO 527
	8.1 %	8.1 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.6 %	6.6 %	5 mm/min; ISO 527
	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.67 GPa	822 ksi	1 mm/min; ISO 527
	6.19 GPa	898 ksi	50 mm/min; ASTM D638
Flexural Strength	87.0 MPa	12600 psi	ISO 178
Flexural Modulus	5.20 GPa	754 ksi	2 mm/min; ISO 178
	5.48 GPa	795 ksi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	0790 Comments
Izod Impact, Notched	5.29 J/cm	9.91 ft-lb/in	ASTM D256
Izod Impact, Unnotched	16.0 J/cm	30.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	44.0 kJ/m ²	20.9 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	90.0 kJ/m ²	42.8 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	64.0 Âµm/m-Â°C	35.6 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	61.0 Âµm/m-Â°C	33.9 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)	232 Â°C	450 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	248 Â°C	478 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	132 Â°C	270 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	190 Â°C	374 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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