

SABIC Innovative Plastics LNP THERMOCOMP 2C004 ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

Material Notes:

LNP* THERMOCOMP* 2C004 is a compound based on ETFE resin containing 20% Carbon Fiber. Added features of this material include:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2C004-ETFE.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in ³	ISO 1183
	1.75 g/cc	0.0632 lb/in ³	ASTM D792
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.120 %	0.120 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.022 cm/cm	0.022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0222 cm/cm	0.0222 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.0 MPa	8560 psi	ISO 527
	60.0 MPa	8700 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.5 %	2.5 %	ASTM D638
Tensile Modulus	12.18 GPa	1767 ksi	1 mm/min; ISO 527
	13.3 GPa	1930 ksi	50 mm/min; ASTM D638
Flexural Strength	106 MPa	15400 psi	ASTM D790
	120 MPa	17400 psi	ISO 178

Flexural Modulus Mechanical Properties	10.54 GPa Metric	1529 ksi English	ASTM D790 Comments
	10.55 GPa	1530 ksi	ISO 178
Izod Impact, Notched	1.81 J/cm	3.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.87 J/cm	11.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	36.0 kJ/mÂ²	17.1 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	25.6 Âµm/m-Â°C	14.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	54.0 Âµm/m-Â°C	30.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	54.0 Âµm/m-Â°C	30.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	246 Â°C	475 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	252 Â°C	486 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	187 Â°C	369 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	208 Â°C	406 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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