

SABIC Innovative Plastics LNP Thermocomp 2Z004 FP-E (EFTE)

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE , Fluorocarbon ETFE , with Glass or Carbon Fiber Filler

Material Notes:

LNP* 2Z004 is a compound based on Ethylenetetrafluoroethylene (ETFE) containing Milled Glass. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-2Z004-FP-E-EFTE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.84 g/cc	1.84 g/cc	ASTM D 792
Density	1.83 g/cc	0.0661 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.00 % @Time 86400 sec	0.00 % @Time 24.0 hour	50% RH; ASTM D 570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	21.0 MPa	3050 psi	Type I, 5 mm/min; ASTM D 638
	22.0 MPa	3190 psi	5 mm/min; ISO 527
Tensile Strength, Yield	27.0 MPa	3920 psi	5 mm/min; ISO 527
	29.0 MPa	4210 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	53 %	53 %	Type I, 5 mm/min; ASTM D 638
	78 %	78 %	5 mm/min; ISO 527
Elongation at Yield	22 %	22 %	5 mm/min; ISO 527
	23 %	23 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	1.51 GPa	219 ksi	1 mm/min; ISO 527
	1.70 GPa	247 ksi	50 mm/min; ASTM D 638
Flexural Strength	24.0 MPa	3480 psi	ISO 178
Flexural Modulus	1.21 GPa	175 ksi	2 mm/min; ISO 178
	1.28 GPa	186 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	6.15 J/cm @Temperature 23.0 Â°C	11.5 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	13.4 J/cm @Temperature 23.0 Â°C	25.7 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	37.0 kJ/mÂ² @Temperature 23.0 Â°C	17.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	119 kJ/mÂ² @Temperature 23.0 Â°C	56.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	26.0 J @Temperature 23.0 Â°C	19.2 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	44.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	87.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	89.0 Â°C	192 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	88.0 Â°C @Thickness 3.20 mm	190 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Â°C	122 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	52.0 Â°C @Thickness 3.20 mm	126 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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