

LNPTTM THERMOCOMPTM COMPOUND 2C003

FP-EC-1003

DESCRIPTION

LNP THERMOCOMP 2C003 compound is based on Ethylene Tetrafluoroethylene (ETFE) resin containing 15% carbon fiber. Added features of this grade include: Electrically Conductive.

GENERAL INFORMATION

Features	Electrically Conductive, Carbon fiber filled, High stiffness/Strength
Fillers	Carbon Fiber
Polymer Types	Ethylene Tetrafluoroethylene Copolymer (ETFE)
Processing Techniques	Injection Molding

INDUSTRY

Electrical and Electronics
Industrial

SUB INDUSTRY

Energy Management, Electronic Components
Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, break	90	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	90	MPa	ASTM D638
Tensile Strain, break	4.9	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	4.9	%	ASTM D638
Tensile Modulus, 50 mm/min	11710	MPa	ASTM D638
Flexural Stress	137	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	137	MPa	ASTM D790
Flexural Modulus	11030	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	11030	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	1238	J/m	ASTM D4812
Izod Impact, notched, 23°C	352	J/m	ASTM D256
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	207	°C	ASTM D648
PHYSICAL ⁽¹⁾			
Density	1.73	g/cm ³	ASTM D792
INJECTION MOLDING ⁽²⁾			
Drying Temperature	120 – 150	°C	
Drying Time	4	Hrs	
Melt Temperature	315	°C	
Front - Zone 3 Temperature	325 – 340	°C	
Middle - Zone 2 Temperature	300 – 325	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Rear - Zone 1 Temperature	280 – 300	°C	
Mold Temperature	90 – 120	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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