LNP™ THERMOCOMP™ COMPOUND 2C003

FP-EC-1003

DESCRIPTION

LNP THERMOCOMP 2C003 is a compound based on ETFE resin containing 15% Carbon Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	90	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	90	MPa	ASTM D 638
Tensile Strain, break	4.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	11710	MPa	ASTM D 638
Flexural Stress	137	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	137	MPa	ASTM D 790
Flexural Modulus	11030	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	11030	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	1238	J/m	ASTM D 4812
Izod Impact, notched, 23°C	352	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	207	°C	ASTM D 648
PHYSICAL			
Density	1.73	g/cm³	ASTM D 792
INJECTION MOLDING			
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	
Rear - Zone 1 Temperature	280 – 300	°C	
Mold Temperature	90 – 120	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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