

# LNPT<sup>™</sup> THERMOCOMP<sup>™</sup> COMPOUND 5C004

FP-VC-1004

## DESCRIPTION

LNP THERMOCOMP 5C004 compound is based on Polyvinylidene Fluoride (PVDF) resin containing 20% 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	Polyvinylidene Fluoride (PVDF)
Processing Techniques	Injection Molding
INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Energy Management, Electronic Components
Industrial	Material Handling

## TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL <sup>(1)</sup></b>			
Tensile Stress, break	84	MPa	ASTM D638
Tensile Strain, break	0.7	%	ASTM D638
Tensile Modulus, 50 mm/min	16440	MPa	ASTM D638
Flexural Stress	137	MPa	ASTM D790
Flexural Modulus	13930	MPa	ASTM D790
<b>IMPACT <sup>(1)</sup></b>			
Izod Impact, unnotched, 23°C	285	J/m	ASTM D4812
Izod Impact, notched, 23°C	53	J/m	ASTM D256
<b>THERMAL <sup>(1)</sup></b>			
HDT, 1.82 MPa, 3.2mm, unannealed	153	°C	ASTM D648
<b>PHYSICAL <sup>(1)</sup></b>			
Density	1.75	g/cm <sup>3</sup>	ASTM D792
<b>INJECTION MOLDING <sup>(2)</sup></b>			
Drying Temperature	120 – 150	°C	
Drying Time	4	Hrs	
Melt Temperature	215 – 230	°C	
Front - Zone 3 Temperature	225 – 245	°C	
Middle - Zone 2 Temperature	210 – 225	°C	
Rear - Zone 1 Temperature	190 – 210	°C	
Mold Temperature	65 – 90	°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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