

LNPTTM THERMOCOMPTM COMPOUND SC004

SC-1004

DESCRIPTION

LNP THERMOCOMP SC004 compound is based on Nylon 12 resin containing 20% carbon fiber. Added features of this grade include: Electrically Conductive.

TYPICAL APPLICATIONS

TBD

GENERAL INFORMATION

Features	Electrically Conductive, Carbon fiber filled, High stiffness/Strength, No PFAS intentionally added
Fillers	Carbon Fiber
Polymer Types	Polyamide 12 (Nylon 12)
Processing Techniques	Injection Molding

INDUSTRY

Automotive
Consumer
Electrical and Electronics

SUB INDUSTRY

Automotive Under the Hood
Home Appliances, Commercial Appliance
Electronic Components, Mobile Phone - Computer - Tablets

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, break, 5 mm/min	130	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2 – 4	%	ISO 527
Tensile Modulus, 1 mm/min	10300	MPa	ISO 527
Flexural Stress, break, 2 mm/min	171	MPa	ISO 178
Flexural Modulus, 2 mm/min	7900	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched 80°10°4 +23°C	50	kJ/m ²	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	14	kJ/m ²	ISO 180/1A
PHYSICAL ⁽¹⁾			
Density	1.11	g/cm ³	ISO 1183
ELECTRICAL ⁽¹⁾			
Surface Resistivity	1.E+02 – 1.E+04	Ω	ASTM D257
INJECTION MOLDING ⁽²⁾			
Drying Temperature	100 – 105	°C	
Drying Time	3.00 – 4.00	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	260 – 280	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Nozzle Temperature	250 – 270	°C	
Front - Zone 3 Temperature	260 – 280	°C	
Middle - Zone 2 Temperature	250 – 270	°C	
Rear - Zone 1 Temperature	240 – 260	°C	
Hopper Temperature	40 – 60	°C	
Mold Temperature	60 – 85	°C	

- (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.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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