



LNPTM THERMOCOMPTM COMPOUND LF008

LF-1008

REGION AMERICAS

DESCRIPTION

LNP THERMOCOMP LF008 compound is based on Polyetheretherketone (PEEK) resin containing 40% glass fiber. Added features of this grade include: High Modulus and Strength.

GENERAL INFORMATION	
Features	High stiffness/Strength, High temperature resistance, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polyetheretherketone (PEEK)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Consumer	Commercial Appliance
Electrical and Electronics	Electronic Components, Mobile Phone - Computer - Tablets
Industrial	Electrical, Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, break	154	MPa	ASTM D638
Tensile Strain, yield	2.4	%	ASTM D638
Tensile Strain, break	2.4	%	ASTM D638
Tensile Modulus, 5 mm/min	13780	MPa	ASTM D638
Flexural Stress	234	MPa	ASTM D790
Flexural Modulus	9650	MPa	ASTM D790
Tensile Stress, yield	156	MPa	ISO 527
Tensile Stress, break	155	MPa	ISO 527
Tensile Strain, yield	2.2	%	ISO 527
Tensile Strain, break	2.4	%	ISO 527
Tensile Modulus, 1 mm/min	12810	MPa	ISO 527
Flexural Stress	240	MPa	ISO 178
Flexural Modulus	10400	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	811	J/m	ASTM D4812
Izod Impact, notched, 23°C	69	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	13	J	ASTM D3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	53	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL ⁽¹⁾			
CTE, -40°C to 40°C, flow	1.74E-05	1 / °C	ASTM E831
CTE, -40°C to 40°C, xflow	4.18E-05	1 / °C	ASTM E831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	261	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Density	1.61	g/cm ³	ASTM D792
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.5 – 0.7	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1 – 3	%	ASTM D955
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.64	%	ISO 294
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1.1	%	ISO 294
Density	1.61	g/cm ³	ISO 1183
INJECTION MOLDING ⁽³⁾			
Drying Temperature	150	°C	
Drying Time	4 – 6	Hrs	
Front - Zone 3 Temperature	380 – 400	°C	
Middle - Zone 2 Temperature	380 – 400	°C	
Rear - Zone 1 Temperature	370 – 380	°C	
Mold Temperature	175 – 190	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	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) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) 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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