

LNPTTM THERMOCOMPTM COMPOUND UF0067D

DESCRIPTION

LNP THERMOCOMP UF0067D compound is based on Nylon resin containing 35% glass fiber. Added features of this grade include: High Stiffness/Strength.

GENERAL INFORMATION	
Features	High stiffness/Strength
Fillers	Glass Fiber
Polymer Types	Polyamide, Unspecified (Nylon, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20260717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, brk, Type I, 50 mm/min	240	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	3.5	%	ASTM D638
Tensile Modulus, 50 mm/min	14000	MPa	ASTM D638
Flexural Strength, 1.3 mm/min, 50 mm span	340	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	11500	MPa	ASTM D790
Tensile Stress, break, 50 mm/min	235	MPa	ISO 527
Tensile Strain, break, 50 mm/min	3.6	%	ISO 527
Tensile Modulus, 1 mm/min	14400	MPa	ISO 527
Flexural Strength, 2 mm/min	350	MPa	ISO 178
Flexural Modulus, 2 mm/min	12000	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	110	J/m	ASTM D256
Izod Impact, unnotched, 23°C	1100	J/m	ASTM D4812
Izod Impact, notched 80*10*3 +23°C	11	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80*10*3 +23°C	70	kJ/m ²	ISO 180/1U
THERMAL ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	>280	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	265	°C	ASTM D648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	>280	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	266	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Specific Gravity	1.47	-	ASTM D792
Melt Flow Rate			
320°C/2.16 kgf	25	g/10 min	ASTM D1238

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Water Absorption, (23°C/24hrs)	0.4	%	ISO 62-1
Mold Shrinkage, flow ⁽²⁾	0.2 – 0.4	%	SABIC method
Mold Shrinkage, xflow ⁽²⁾	0.4 – 0.6	%	SABIC method
INJECTION MOLDING ⁽³⁾			
Drying Temperature	100 – 120	°C	
Drying Time	4 – 6	Hrs	
Maximum Moisture Content	0.4 – 0.6	%	
Melt Temperature	310 – 330	°C	
Nozzle Temperature	310 – 330	°C	
Front - Zone 3 Temperature	305 – 315	°C	
Middle - Zone 2 Temperature	305 – 315	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	120 – 150	°C	
Back Pressure	0.2 – 0.5	MPa	
Screw Speed	30 – 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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