

LNPTM THERMOCOMPTM COMPOUND RX06421S

DESCRIPTION

LNP THERMOCOMP RX06421S is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized, Clean Compounding System.

GENERAL INFORMATION	
Features	Good Processability, Heat Stabilized, Low ionics/Outgassing/Liquid particle count, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polyamide 66 (Nylon 66)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Consumer	Consumer Goods
Electrical and Electronics	Electronic Components
Industrial	Material Handling, Industrial General

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL⁽¹⁾ MPa Tensile Stress, brk, Type I, 5 mm/min 181 ASTM D638 Tensile Strain, brk, Type I, 5 mm/min 2.6 % ASTM D638 11000 MPa ASTM D638 Tensile Modulus, 50 mm/min Flexural Stress, brk, 1.3 mm/min, 50 mm span 264 MPa ASTM D790 ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 9620 MPa Tensile Stress, break, 5 mm/min 181 MPa ISO 527 ISO 527 Tensile Strain, break, 5 mm/min 2.6 % Tensile Modulus, 1 mm/min 10550 MPa ISO 527 ISO 178 Flexural Modulus, 2 mm/min 9480 MPa IMPACT (1) Izod Impact, unnotched, 23°C 969 ASTM D4812 J/m Izod Impact, notched, 23°C 92 ASTM D256 J/m Multiaxial Impact 2 ISO 6603 Instrumented Dart Impact Total Energy, 23°C 8 ASTM D3763 Izod Impact, unnotched 80*10*4 +23°C 57 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1) HDT, 0.45 MPa, 3.2 mm, unannealed 255 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 243 °C ASTM D648 CTE, -30°C to 30°C, flow 2.5E-05 1/°C ASTM D696 CTE, -30°C to 30°C, xflow 1.0E-04 1/°C ASTM D696

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CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	256	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	239	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Specific Gravity	1.39	-	ASTM D792
Density	1.38	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.75	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.2 - 0.4	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1 – 3	%	ASTM D955
Moisture Absorption (23°C / 50% RH)	1.2	%	ISO 62
INJECTION MOLDING (3)			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	280 – 305	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	95 – 110	°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) 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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