

LNPTM THERMOCOMPTM COMPOUND RF006XXJ

RF006XXJ

DESCRIPTION

LNP THERMOCOMP RF006XXJ compound is based on Nylon 6/6 resin containing 30% glass fiber. Added features of this grade include: Healthcare, Low Extractables, Food Contact compliant.

GENERAL INFORMATION	
Features	Food contact, Healthcare/Formula lock, High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polyamide 66 (Nylon 66)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Water Management
Consumer	Home Appliances
Hygiene and Healthcare	Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing
Packaging	Industrial Packaging, Food & Beverage

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL⁽¹⁾ 167 MPa ASTM D638 Tensile Stress, brk, Type I, 5 mm/min Tensile Strain, brk, Type I, 5 mm/min 2.4 % ASTM D638 11420 ASTM D638 Tensile Modulus, 50 mm/min MPa ASTM D790 Flexural Stress, brk, 1.3 mm/min, 50 mm span 242 MPa Flexural Modulus, 1.3 mm/min, 50 mm span 9700 MPa ASTM D790 160 ISO 527 Tensile Stress, break, 5 mm/min MPa Tensile Strain, break, 5 mm/min 2.4 ISO 527 % Tensile Modulus, 1 mm/min 10570 MPa ISO 527 MPa Flexural Stress 233 ISO 178 Flexural Modulus, 2 mm/min 9400 MPa ISO 178 IMPACT (1) Izod Impact, notched, 23°C 67 J/m ASTM D256 2 ISO 6603 Multiaxial Impact Instrumented Dart Impact Total Energy, 23°C 6 ASTM D3763 Izod Impact, unnotched 80*10*4 +23°C 44 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 6 kJ / m² ISO 180/1A THERMAL (1) HDT, 1.82 MPa, 3.2mm, unannealed °C 246 ASTM D648 CTE, -30°C to 30°C, flow 1/°C ASTM D696 2.7E-05 1/°C ASTM D696 CTE, -30°C to 30°C, xflow 9.8E-05

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CHEMISTRY THAT MATTERS

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	255	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	236	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Specific Gravity	1.41	-	ASTM D792
Density	1.4	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.64	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.3 – 0.6	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.9 – 2	%	ASTM D955
Moisture Absorption (23°C / 50% RH)	0.94	%	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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