

LNPTM LUBRICOMPTM COMPOUND MX06404

MFL-4034 HS LE REGION AMERICAS

DESCRIPTION

LNP LUBRICOMP MX06404 compound is based on Polypropylene (PP) resin containing 20% glass fiber and 15% PTFE. Added features of this grade include: Heat Stabilized, Low Extractable, Wear Resistant.

GENERAL INFORMATION	
Features	Heat Stabilized, Wear resistant, Food contact
Fillers	Glass Fiber, PTFE
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL⁽¹⁾ 39 MPa Tensile Stress, yld, Type I, 5 mm/min ASTM D638 Tensile Stress, brk, Type I, 5 mm/min 33 MPa ASTM D638 ASTM D638 Tensile Strain, yld, Type I, 5 mm/min 1.2 % Tensile Strain, brk, Type I, 5 mm/min 1.6 % ASTM D638 5730 Tensile Modulus, 5 mm/min MPa ASTM D638 61 Flexural Stress, yld, 1.3 mm/min, 50 mm span MPa ASTM D790 4480 ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span MPa Tensile Stress, yield, 5 mm/min 38 MPa ISO 527 Tensile Stress, break, 5 mm/min 36 MPa ISO 527 ISO 527 Tensile Strain, yield, 5 mm/min 1.1 % Tensile Strain, break, 5 mm/min 1.5 % ISO 527 5320 MPa Tensile Modulus, 1 mm/min ISO 527 Flexural Stress MPa ISO 178 59 Flexural Modulus, 2 mm/min 4580 MPa ISO 178 IMPACT (1) 150 ASTM D4812 Izod Impact, unnotched, 23°C J/m 40 J/m ASTM D256 Izod Impact, notched, 23°C Multiaxial Impact 2 ISO 6603 ASTM D3763 Instrumented Dart Impact Total Energy, 23°C 11 T

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CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Izod Impact, unnotched 80*10*4 +23°C	10	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	145	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	103	°C	ASTM D648
CTE, -30°C to 30°C, flow	6.1E-05	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	8.4E-05	1/°C	ASTM D696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	97	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Specific Gravity	1.13		ASTM D792
Density	1.14	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.13	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.7 – 0.9	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1 – 3	%	ASTM D955
Wear Factor Washer	61	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Wear Factor Ring	1	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.3	-	ASTM D3702 Modified: Manual
Static COF	0.28	-	ASTM D3702 Modified: Manual
Moisture Absorption (23°C / 50% RH)	0.07	%	ISO 62
INJECTION MOLDING ⁽³⁾			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Melt Temperature	225 – 250	°C	
Front - Zone 3 Temperature	240 – 250	°C	
Middle - Zone 2 Temperature	215 – 225	°C	
Rear - Zone 1 Temperature	195 – 205	°C	
Mold Temperature	30 – 50	°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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