

LNPTM LUBRICOMPTM COMPOUND RX85514

PDX-R-85514 REGION AMERICAS

DESCRIPTION

LNP LUBRICOMP RX85514 compound is based on Nylon 6/6 resin containing 10% aramid fiber, 15% PTFE and proprietary lubricant. Added features of this grade include Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant
Fillers	Aramid Fiber, PTFE
Polymer Types	Polyamide 66 (Nylon 66)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Under the Hood
Consumer	Sport/Leisure
Industrial	Electrical, Industrial General

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS TEST METHODS MECHANICAL⁽¹⁾ 79 Tensile Stress, brk, Type I, 5 mm/min MPa ASTM D638 Tensile Strain, brk, Type I, 5 mm/min 7.2 % ASTM D638 Tensile Modulus, 50 mm/min 3700 MPa ASTM D638 ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 3320 MPa MPa Tensile Stress, break, 5 mm/min 78 ISO 527 Tensile Strain, yield, 5 mm/min 7.3 % ISO 527 Tensile Strain, break, 5 mm/min 7.4 % ISO 527 Tensile Modulus, 1 mm/min MPa 3820 ISO 527 **Flexural Stress** 109 MPa ISO 178 Flexural Modulus, 2 mm/min ISO 178 3560 MPa IMPACT (1) 516 ASTM D4812 Izod Impact, unnotched, 23°C J/m Izod Impact, notched, 23°C 37 J/m ASTM D256 Multiaxial Impact 1 J ISO 6603 Instrumented Dart Impact Total Energy, 23°C 6 ASTM D3763 J Izod Impact, notched 80*10*4 +23°C 4 kJ/m² ISO 180/1A THERMAL⁽¹⁾ HDT, 0.45 MPa, 3.2 mm, unannealed 247 °C ASTM D648 117 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed CTE, -30°C to 30°C, flow 6.3E-05 1/°C ASTM D696

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CHEMISTRY THAT MATTERS

Revision 20240222



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -30°C to 30°C, xflow	7.6E-05	1/°C	ASTM D696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	228	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	112	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Density	1.28	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.61	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	1 – 3	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1 – 3	%	ASTM D955
Wear Factor Washer	3	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	0.38	-	ASTM D3702 Modified: Manual
Static COF	0.34		ASTM D3702 Modified: Manual
Density	1.28	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.93	%	ISO 62
INJECTION MOLDING ⁽³⁾			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	275 – 290	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	80 – 95	°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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