

LNP™ LUBRICOMP™ Noryl_NF1520

compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP NORYL_NF1520 compound is a 20% glass reinforced, 15% PTFE. Wear resistant; 211F HDT @ 264 psi.

General Information			
UL YellowCard	E121562-221181		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)		
	Elastic Modulus vs Temperature (ASTM D4065)		
	Flexural DMA (ASTM D4065)		
	Tensile Creep (ASTM D2990)		
	Tensile Fatigue		
	Tensile Stress vs. Strain (ASTM D638)		
	Thermal Conductivity vs. Temperature (ASTM E1530)		
	Viscosity vs. Shear Rate (ASTM D3835)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.15 to 0.25	%	
Across Flow : 3.20 mm	0.25 to 0.45	%	
K (wear) Factor ¹	73.0		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield	74.5	MPa	
Break	74.5	MPa	
Tensile Elongation ³ (Break)	4.2	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	5310	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	101	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.46		

vs. Steel - Static	0.30		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Unnotched Izod Impact (23°C)	360	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	16.9	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	103	°C	
0.45 MPa, Unannealed, 6.40 mm	105	°C	
1.8 MPa, Unannealed, 3.20 mm	96.7	°C	
1.8 MPa, Unannealed, 6.40 mm	99.4	°C	
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	104 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	30 to 70	%	
Rear Temperature	243 to 293	°C	
Middle Temperature	254 to 299	°C	
Front Temperature	266 to 304	°C	
Nozzle Temperature	277 to 304	°C	
Processing (Melt) Temp	277 to 304	°C	
Mold Temperature	71.1 to 98.9	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	20 to 100	rpm	
Vent Depth	0.038 to 0.051	mm	
NOTE			
1.	xE-10, PV=2000 psi-fpm vs Steel		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	2.6 mm/min		
5.	2.6 mm/min		

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