

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			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Good wear resistance		
	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage			Internal method
Flow: 3.20mm	0.15 - 0.25	%	Internal method
Transverse flow: 3.20mm	0.25 - 0.45	%	Internal method
K (wear) Factor ¹	73.0		Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield	74.5	MPa	ASTM D638
Fracture	74.5	MPa	ASTM D638
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
With steel-dynamic	0.46		ASTM D1894
With steel-static	0.30		ASTM D1894
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, 3.20mm	103	°C	ASTM D648

0.45 MPa, unannealed, 6.40mm	105	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	96.7	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	99.4	°C	ASTM D648
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	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 - 110	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	30 - 70	%	
Rear Temperature	243 - 293	°C	
Middle Temperature	254 - 299	°C	
Front Temperature	266 - 304	°C	
Nozzle Temperature	277 - 304	°C	
Processing (Melt) Temp	277 - 304	°C	
Mold Temperature	71.1 - 98.9	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	20 - 100	rpm	
Vent Depth	0.038 - 0.051	mm	
NOTE			
1.	xE-10, PV=2000 psi-fpm vs Steel		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	2.6 mm/min		
5.	2.6 mm/min		

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