

LNP™ LUBRICOMP™ Noryl_SPN422L

compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP NORYL_SPN422L is a wear resistant, fluorocarbon alloy, 235F (113C) HDT. UL94 HB rated. Check surface aesthetics prior to material specification.

General Information			
Features	Good wear resistance		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage			Internal method
Flow: 3.20mm	0.50 - 0.70	%	Internal method
Transverse flow ¹	0.50 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	49.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	35	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	2280	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	96	J/m	ASTM D256
23°C	270	J/m	ASTM D256
Dart Drop Impact (23°C)	13.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	113	°C	ASTM D648
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Electrical	Nominal Value	Test Method	
Arc Resistance ⁶	PLC 6	ASTM D495	
Comparative Tracking Index (CTI)	PLC 2	UL 746	
High Amp Arc Ignition (HAI)	PLC 1	UL 746	
High Voltage Arc Tracking Rate (HVTR)	PLC 3	UL 746	
Hot-wire Ignition (HWI)	PLC 2	UL 746	

Flammability	Nominal Value	Test Method
Flame Rating (1.47 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	249 - 299	°C
Middle Temperature	260 - 304	°C
Front Temperature	271 - 310	°C
Nozzle Temperature	282 - 310	°C
Processing (Melt) Temp	282 - 310	°C
Mold Temperature	76.7 - 104	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	20 - 100	rpm

NOTE

1. Tensile Bar
2. Type 1, 50mm/min
3. Type 1, 50mm/min
4. 2.6 mm/min
5. 2.6 mm/min
6. Tungsten electrode

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