

LNP™ LUBRICOMP™ UL002S compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP UL002S is a compound based on Polyphthalamide resin containing 10% PTFE. Added features of this grade include: Heat Stabilized, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound UL-4020 HS

Product reorder name: UL002S

General Information			
UL YellowCard	E121562-102075132		
Additive	Heat Stabilizer		
	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.25	g/cm ³	ASTM D792
--	1.26	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.90 to 2.0	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.47	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.73	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3170	MPa	ASTM D638
--	3220	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	60.0	MPa	ASTM D638
Yield	58.0	MPa	ISO 527-2/5
Break ³	60.0	MPa	ASTM D638
Break	60.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.2	%	ASTM D638
Yield	2.2	%	ISO 527-2/5

Break ⁵	2.2	%	ASTM D638
Break	2.2	%	ISO 527-2/5
Flexural Modulus ⁶ (50.0 mm Span)	2980	MPa	ASTM D790
Flexural Strength ⁷			ASTM D790
Yield, 50.0 mm Span	105	MPa	
Break, 50.0 mm Span	105	MPa	
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.27		
vs. Itself - Static	0.17		
Wear Factor			ASTM D3702 Modified
Ring	-0.100	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	20.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	26	J/m	ASTM D256
23°C ⁸	2.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	450	J/m	ASTM D4812
23°C ⁹	27	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	2.80	J	ASTM D3763
--	0.500	J	ISO 6603-2
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	310 to 321	°C	
Middle Temperature	316 to 327	°C	
Front Temperature	327 to 338	°C	
Processing (Melt) Temp	316 to 332	°C	
Mold Temperature	149 to 171	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	1.3 mm/min		
8.	80*10*4		

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