

LNP™ LUBRICOMP™ RL003 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RL003 is a compound based on Nylon 66 resin containing 15% PTFE. Added features of this material include: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound RL-4030

Product reorder name: RL003

General Information			
UL YellowCard	E121562-101284450		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage			
Across Flow : 24 hr	1.0 to 3.0	%	ASTM D955
Flow : 24 hr	1.0 to 3.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Break	73.8	MPa	ASTM D638
Break	73.0	MPa	ISO 527-2
Tensile Elongation			
Break	11	%	ASTM D638
Break	8.9	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Strength			
--	103	MPa	ASTM D790
--	90.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.32		
vs. Itself - Static	0.30		
Wear Factor - Washer	28.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	33	J/m	ASTM D256
23°C ¹	4.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	1000	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature ² (1.8 MPa, Unannealed, 64.0 mm Span)	82.0	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	277 to 288	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	80*10*4		
2.	80*10*4 mm		

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