

LNP™ LUBRICOMP™ RL004 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RL004 is a compound based on Nylon 66 resin containing PTFE.

Also known as: LNP* LUBRICOMP* Compound RL-4040

Product reorder name: RL004

General Information			
UL YellowCard	E45329-101344479		
Additive	PTFE lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	24.0 - 32.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	1.8 - 2.3	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2/1
Tensile Stress (Break)	58.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.8	%	ISO 527-2/5
Flexural Modulus ²			ISO 178
--	2700	MPa	ISO 178
60°C	1400	MPa	ISO 178
100°C	700	MPa	ISO 178
Flexural Stress			ISO 178
--	82.0	MPa	ISO 178
60°C	35.0	MPa	ISO 178
100°C	18.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.32		ASTM D3702 Modified
With Self-Static	0.21		ASTM D3702 Modified
Flexural Strain at Break ³			ISO 178
--	7.0	%	ISO 178
60°C	7.0	%	ISO 178
100°C	7.0	%	ISO 178
Wear Factor - Washer	16.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C)	5.0	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength ⁵ (23°C)	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, unannealed, 64.0mm span	219	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	74.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	9.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	8.8E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	277 - 288	°C	
Mold Temperature	82.2 - 93.3	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	2 mm/min		
4.	80*10*4		
5.	80*10*4		
6.	80*10*4 mm		

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