

LNP™ LUBRICOMP™ RL002 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RL002 is a compound based on Nylon 66 resin containing 10% PTFE. Added features of this material include: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RL-4020
Product reorder name: RL002

General Information			
Additive	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	2.2	%	
Across Flow : 24 hr	2.6	%	
Water Absorption			
24 hr, 50% RH	0.94	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3090	MPa	ASTM D638
--	3180	MPa	ISO 527-2/1
Tensile Strength			
Yield	75.1	MPa	ASTM D638
Yield	73.0	MPa	ISO 527-2
Break	74.7	MPa	ASTM D638
Break	73.0	MPa	ISO 527-2
Tensile Elongation			
Yield	14	%	ASTM D638
Yield	17	%	ISO 527-2
Break	14	%	ASTM D638
Break	18	%	ISO 527-2
Flexural Modulus			
--	3040	MPa	ASTM D790
--	2840	MPa	ISO 178
Flexural Strength			
--	112	MPa	ASTM D790

--	89.4	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.27		
vs. Itself - Static	0.23		
Wear Factor - Washer	49.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C ²	4.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	900	J/m	ASTM D4812
23°C ³	59	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.59	J	ASTM D3763
--	4.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	76.1	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	74.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	8.3E-5	cm/cm/°C	
Transverse : -40 to 40°C	8.6E-5	cm/cm/°C	
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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