

LNP™ LUBRICOMP™ RL004S compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RL004S is a compound based on Nylon 66 resin containing 20% PTFE. Added features of this material include: Heat Stabilized, Wear Resistant.

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

Product reorder name: RL004S

General Information			
Additive	Heat Stabilizer		
	PTFE Lubricant (20%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.9 to 3.3	%	
Across Flow : 24 hr	1.9 to 3.3	%	
Water Absorption (24 hr, 50% RH)	0.56	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2480	MPa	ASTM D638
--	2600	MPa	ISO 527-2/1
Tensile Strength			
Yield	63.1	MPa	ASTM D638
Yield	55.9	MPa	ISO 527-2
Break	63.1	MPa	ASTM D638
Break	55.9	MPa	ISO 527-2
Tensile Elongation			
Yield	5.4	%	ASTM D638
Yield	6.7	%	ISO 527-2
Break	6.2	%	ASTM D638
Break	7.2	%	ISO 527-2
Flexural Modulus			
--	2280	MPa	ASTM D790
--	2400	MPa	ISO 178

Flexural Strength			
--	88.0	MPa	ASTM D790
--	84.9	MPa	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			
23°C	43	J/m	ASTM D256
23°C ²	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	570	J/m	ASTM D4812
23°C ³	40	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.30	J	ASTM D3763
--	0.940	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	70.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	65.0	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	9.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.9E-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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