

LNP™ LUBRICOMP™ RP004 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP RP004 is a compound based on Nylon 66 resin containing PTFE, Silicone. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound RL-4540
Product reorder name: RP004

General Information			
UL YellowCard	E207780-101343871		
Additive	PTFE silicone lubricant		
Features	Lubrication		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.9	%	ASTM D955
Transverse flow: 24 hours	1.9	%	ASTM D955
Vertical flow direction: 24 hours	1.9	%	ISO 294-4
Flow direction: 24 hours	1.9	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2760	MPa	ASTM D638
--	2730	MPa	ISO 527-2/1
Tensile Strength			
Yield	5.52	MPa	ASTM D638
Yield	63.0	MPa	ISO 527-2
Fracture	60.7	MPa	ASTM D638
Fracture	63.0	MPa	ISO 527-2
Tensile Elongation			
Yield	22	%	ASTM D638
Yield	26	%	ISO 527-2
Fracture	23	%	ASTM D638
Fracture	27	%	ISO 527-2
Flexural Modulus			
--	2070	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Stress	82.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.20		ASTM D3702 Modified
With Self-Static	0.045		ASTM D3702 Modified

Wear Factor - Washer	3.50	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	5.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	350	J/m	ASTM D4812
23°C ³	89	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.70	J	ASTM D3763
--	1.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	237	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	200	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	63.3	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	63.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	9.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	8.3E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	8.4E-5	cm/cm/°C	ISO 11359-2
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

