

LNP™ LUBRICOMP™ RP003 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP RP003 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-4530
Product reorder name: RP003

General Information			
Additive	PTFE silicone lubricant		
Features	Lubrication		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792, ISO 1183
Water Absorption (24 hr, 50% RH)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2760	MPa	ASTM D638
--	2960	MPa	ISO 527-2/1
Tensile Stress			
Yield	55.0	MPa	ISO 527-2
Fracture	49.0	MPa	ASTM D638
Fracture	55.0	MPa	ISO 527-2
Tensile Elongation			
Yield	4.6	%	ASTM D638
Yield	4.8	%	ISO 527-2
Fracture	4.7	%	ASTM D638
Fracture	4.8	%	ISO 527-2
Flexural Modulus			
--	2070	MPa	ASTM D790
--	3000	MPa	ISO 178
Flexural Strength			
--	68.9	MPa	ASTM D790
--	85.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.23		ASTM D3702 Modified
With Self-Static	0.17		ASTM D3702 Modified
Wear Factor - Washer	10.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C ²	4.2	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	380	J/m	ASTM D4812
23°C ³	26	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	1.40	J	ASTM D3763
--	0.900	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	201	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	221	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	59.4	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	66.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	9.0E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	9.1E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	9.5E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	9.6E-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		

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