

LNP™ LUBRICOMP™ SP003 compound

Polyamide 12
SABIC Innovative Plastics

Message:

LNP LUBRICOMP SP003 is a compound based on PA 12 resin containing PTFE/Silicone. Added features include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound SL4530
Product reorder name: SP003

General Information			
Additive	PTFE silicone lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	1.9	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	38.0	MPa	ISO 527-2/50
Fracture	28.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	2.9	%	ISO 527-2/50
Fracture	35	%	ISO 527-2/50
Flexural Modulus ¹	1300	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	85	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	131	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	47.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.3E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.4E-4	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 - 0.20	%	
Rear Temperature	216 - 227	°C	

Middle Temperature	221 - 232	°C
Front Temperature	227 - 238	°C
Processing (Melt) Temp	227 - 238	°C
Mold Temperature	71.1 - 82.2	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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