

LNP™ LUBRICOMP™ DP003 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* DP003 is a compound based on Polycarbonate resin containing 15% PTFE/Silicone. Added features include: Internally Lubricated
Also known as: LNP* LUBRICOMP* Compound DL-4530
Product reorder name: DP003

General Information			
Additive	PTFE + Silicone Lubricant (15%)		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.70 - 0.90	%	Internal method
Water Absorption (23°C, 24 hr)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1950	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	48.0	MPa	ISO 527-2/5
Fracture	42.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	4.9	%	ISO 527-2/5
Fracture	24	%	ISO 527-2/5
Flexural Modulus ¹	1990	MPa	ISO 178
Flexural Stress	73.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.10		ASTM D3702 Modified
With Self-Static	0.26		ASTM D3702 Modified
Wear Factor - Washer	42.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	25	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	140	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	128	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	6.9E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	7.4E-5	cm/cm/°C	ISO 11359-2

Flammability	Nominal Value	Test Method
Flame Rating (3.00 mm, Testing by SABIC)	V-1	UL 94

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	293 - 304	°C
Middle Temperature	304 - 316	°C
Front Temperature	310 - 321	°C
Processing (Melt) Temp	299 - 316	°C
Mold Temperature	82.2 - 110	°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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