

LNP™ LUBRICOMP™ DP003 compound

Polycarbonate
SABIC Innovative Plastics

Message:

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

General Information			
UL YellowCard	E207780-101343863		
Additive	PTFE silicone lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.90 - 1.0	%	ASTM D955
Transverse flow: 24 hours	1.0 - 1.2	%	ASTM D955
Vertical flow direction: 24 hours	1.0 - 1.2	%	ISO 294-4
Flow direction: 24 hours	0.80 - 1.0	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.19	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2230	MPa	ASTM D638
--	2170	MPa	ISO 527-2/1
Tensile Strength			
Yield	49.0	MPa	ASTM D638, ISO 527-2
Fracture	42.7	MPa	ASTM D638
Fracture	41.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.6	%	ASTM D638
Yield	5.8	%	ISO 527-2
Fracture	35	%	ASTM D638
Fracture	41	%	ISO 527-2
Flexural Modulus			
--	1900	MPa	ASTM D790
--	1840	MPa	ISO 178
Flexural Strength			

--	75.8	MPa	ASTM D790
--	75.2	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			
23°C	280	J/m	ASTM D256
23°C ²	32	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	28.4	J	ASTM D3763
--	61.5	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	128	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ³	129	°C	ISO 75-2/Af
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		

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