

LNP™ LUBRICOMP™ DL003P compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* DL003P is a compound based on Polycarbonate resin containing PTFE. Added features of this material include: Exceptional Processing.
Also known as: LNP* LUBRICOMP* Compound DL-4030 EP
Product reorder name: DL003P

General Information			
Additive	PTFE lubricant		
Features	Workability, good		
	Lubrication		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.70 - 0.90	%	ASTM D955
Transverse flow: 24 hours	0.90 - 1.1	%	ASTM D955
Vertical flow direction: 24 hours	0.90 - 1.1	%	ISO 294-4
Flow direction: 24 hours	0.70 - 0.90	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.17	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2430	MPa	ASTM D638
--	2340	MPa	ISO 527-2/1
Tensile Strength			
Yield	51.7	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2
Fracture	42.7	MPa	ASTM D638
Fracture	42.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.2	%	ASTM D638
Yield	5.3	%	ISO 527-2
Fracture	40	%	ASTM D638
Fracture	23	%	ISO 527-2
Flexural Modulus			
--	2100	MPa	ASTM D790
--	2020	MPa	ISO 178
Flexural Strength			

--	82.7	MPa	ASTM D790
--	83.8	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.18		ASTM D3702 Modified
With Self-Static	0.070		ASTM D3702 Modified
Wear Factor - Washer	60.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ²	13	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	30.3	J	ASTM D3763
--	72.3	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	122	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ³	121	°C	ISO 75-2/Af
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		

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