

LNP™ LUBRICOMP™ DL002P compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* DL002P is a compound based on Polycarbonate resin containing 10% PTFE. Added features of this material include: Exceptional Processing, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound DL-4020 EP

Product reorder name: DL002P

General Information			
Additive	PTFE Lubricant (10%)		
Features	Good Processability		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.24	g/cm³	ASTM D792
--	1.25	g/cm³	ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.70 to 0.90	%	
Across Flow : 24 hr	1.0 to 1.2	%	
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2450	MPa	ASTM D638
--	2460	MPa	ISO 527-2/1
Tensile Strength			
Yield	53.1	MPa	ASTM D638
Yield	54.0	MPa	ISO 527-2
Break	44.1	MPa	ASTM D638
Break	43.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.3	%	ASTM D638
Yield	5.6	%	ISO 527-2
Break	31	%	ASTM D638
Break	23	%	ISO 527-2
Flexural Modulus			

--	2200	MPa	ASTM D790
--	2080	MPa	ISO 178
Flexural Strength			
--	82.7	MPa	ASTM D790
--	85.6	MPa	ISO 178
Coefficient of Friction			
vs. Itself - Dynamic	0.28		
vs. Itself - Static	0.17		
Wear Factor - Washer	97.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C ²	11	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	34.3	J	ASTM D3763
--	74.1	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	120	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ³	123	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	7.2E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.3E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	304 to 316	°C	
Front Temperature	310 to 321	°C	
Processing (Melt) Temp	299 to 316	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		

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