

LNP™ LUBRICOMP™ DL004 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRICOMP DL004 is a compound based on Polycarbonate resin containing PTFE. Added features include Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound DL-4040
Product reorder name: DL004

General Information			
UL YellowCard	E45329-101344454		
Additive	PTFE lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2/1
Tensile Stress (Yield)	47.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	5.3	%	ISO 527-2/5
Flexural Modulus ¹	2100	MPa	ISO 178
Flexural Stress	77.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.25		ASTM D3702 Modified
With Self-Static	0.21		ASTM D3702 Modified
Wear Factor - Washer	31.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	17	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			
0.45 MPa, unannealed, 64.0mm span	139	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	127	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	7.9E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	7.9E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating (3.00 mm)	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 mm

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