

LNP™ LUBRICOMP™ DL0049EF compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRICOMP DL0049EF is a compound based on Polycarbonate resin containing PTFE, Flame Retardant. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound DL-4040 FR
Product reorder name: DL0049EF

General Information			
Additive	PTFE lubricant		
Features	Lubrication		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.50 - 0.70	%	ASTM D955
Transverse flow: 24 hours	0.80 - 1.0	%	ASTM D955
Vertical flow direction: 24 hours	0.85	%	ISO 294-4
Flow direction: 24 hours	0.61	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2070	MPa	ASTM D638
--	2090	MPa	ISO 527-2/1
Tensile Strength			
Yield	47.6	MPa	ASTM D638
Yield	49.0	MPa	ISO 527-2
Fracture	40.7	MPa	ASTM D638
Fracture	43.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.2	%	ASTM D638
Yield	5.4	%	ISO 527-2
Fracture	23	%	ASTM D638
Fracture	26	%	ISO 527-2
Flexural Modulus			
--	2070	MPa	ASTM D790
--	2200	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

With self-dynamics	0.32		ASTM D3702 Modified
With Self-Static	0.19		ASTM D3702 Modified
Wear Factor - Washer	8.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ²	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1600	J/m	ASTM D4812
23°C ³	120	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	32.0	J	ASTM D3763
--	26.3	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	137	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	136	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	124	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	126	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	7.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	7.9E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	7.8E-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 - 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		
4.	80*10*4 mm		
5.	80*10*4 mm		

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