

LNP™ LUBRICOMP™ DL0049EF compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DL0049EF is a compound based on Polycarbonate resin containing 20% PTFE, Flame Retardant. Added features of this material include: Wear Resistant, Flame Retardant
Also known as: LNP* LUBRICOMP* Compound DL-4040 FR
Product reorder name: DL0049EF

General Information			
UL YellowCard	E121562-101284665		
Additive	Flame Retardant		
	PTFE Lubricant (20%)		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
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 hr	0.50 to 0.70	%	ASTM D955
Across Flow : 24 hr	0.80 to 1.0	%	ASTM D955
Across Flow : 24 hr	0.85	%	ISO 294-4
Flow : 24 hr	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
Break	40.7	MPa	ASTM D638
Break	43.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.2	%	ASTM D638
Yield	5.4	%	ISO 527-2
Break	23	%	ASTM D638
Break	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
vs. Itself - Dynamic	0.32		
vs. Itself - Static	0.19		
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, 3.20 mm	137	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	136	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	124	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	126	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	7.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	7.9E-5	cm/cm/°C	ASTM E831
Transverse : -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 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		

4.	80*10*4 mm
5.	80*10*4 mm

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
 Phone: +86 13424755533
 Email: sales@su-jiao.com
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China

