

LNP™ LUBRICOMP™ DL0039EF compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DL-0039EF is a compound based on Polycarbonate resin containing 15% PTFE. Characteristics of this grade include: Flame Retardant, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound DL-4030 FR

Product reorder name: DL0039EF

General Information			
Additive	PTFE Lubricant (15%)		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.31	g/cm ³	
--	1.30	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2210	MPa	ASTM D638
--	2090	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	53.0	MPa	ASTM D638
Yield	52.0	MPa	ISO 527-2/5
Break ³	44.0	MPa	ASTM D638
Break	44.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.4	%	ASTM D638
Yield	5.5	%	ISO 527-2/5
Break ⁵	22	%	ASTM D638
Break	27	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span ⁶	2240	MPa	ASTM D790
-- ⁷	2100	MPa	ISO 178
Flexural Stress	77.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.35		
vs. Itself - Static	0.18		
Wear Factor			ASTM D3702 Modified
Ring	0.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	6.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁸ (23°C)	140	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁹ (23°C)	1700	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	36.0	J	ASTM D3763
--	35.0	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 ¹⁰	137	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	126	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	125	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.6E-5	cm/cm/°C	
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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		

7.	2.0 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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Recommended distributors for this material

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