

LNP™ LUBRICOMP™ DP0039EF compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP LUBRICOMP DP0039EF is a compound based on Polycarbonate resin containing Silicone, PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound DP0039EF
Product reorder name: DP0039EF

General Information			
UL YellowCard	E207780-101343864		
Additive	PTFE + Silicone Lubricant		
Features	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage ¹			Internal Method
Flow	0.68	%	
Across Flow	0.67	%	
Water Absorption (Saturation, 23°C)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	2130	MPa	ASTM D638
--	2100	MPa	ISO 527-2/1
Tensile Strength			
Yield	50.0	MPa	ASTM D638, ISO 527-2
Break	40.0	MPa	ASTM D638
Break	39.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.5	%	ASTM D638, ISO 527-2
Break	15	%	ASTM D638
Break	18	%	ISO 527-2
Flexural Modulus			
--	2140	MPa	ASTM D790
--	2180	MPa	ISO 178
Flexural Strength			
--	80.0	MPa	ASTM D790
--	82.2	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.17		ASTM D3702 Modified

Wear Factor - Washer	422	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	300	J/m	ASTM D256
23°C ³	19	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2000	J/m	ASTM D4812
23°C ⁴	130	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	23.0	J	ASTM D3763
--	61.5	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	126	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	128	°C	ISO 75-2/Af
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.	1.5 to 3.2 mm		
2.	5.0 mm/min		
3.	80*10*4		
4.	80*10*4		
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



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