

LNP™ LUBRICOMP™ DL0029E compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* DL0029E is a compound based on Polycarbonate resin containing 10% PTFE. Added features of this material include: Wear Resistant, Flame Retardant.

Also known as: LNP* LUBRICOMP* Compound DL-4020 FR

Product reorder name: DL0029E

General Information			
UL YellowCard	E121562-101282871		
Additive	PTFE Lubricant (10%)		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption (24 hr, 50% RH)	0.017	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2250	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield ²	56.0	MPa	
Break	51.7	MPa	
Break ³	47.0	MPa	
Tensile Elongation			ASTM D638
Yield ⁴	5.7	%	
Break	26	%	
Break ⁵	33	%	
Flexural Modulus			ASTM D790
50.0 mm Span ⁶	2330	MPa	
--	2340	MPa	
Flexural Strength	86.2	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.20		
vs. Itself - Static	0.14		
Wear Factor - Washer	55.0	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
Unnotched Izod Impact (23°C)	2000	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	46.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	141	°C	
1.8 MPa, Unannealed, 3.20 mm	130	°C	
CLTE			ASTM D696
Flow : -30 to 30°C	7.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.5E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.80 mm)	V-0		UL 94
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.	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		

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