

LNP™ LUBRICOMP™ DL0029E compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP DL0029E is a compound based on Polycarbonate resin containing PTFE. Added features of this material include: Flame Retardant.

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

Product reorder name: DL0029E

General Information			
UL YellowCard	E45329-101344455		
Additive	PTFE lubricant		
Features	Lubrication		
	Flame retardancy		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	24.0 - 32.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.70 - 0.90	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Yield)	56.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	5.1	%	ISO 527-2/5
Flexural Modulus ²			ISO 178
--	2700	MPa	ISO 178
60°C	1400	MPa	ISO 178
100°C	700	MPa	ISO 178
Flexural Stress			ISO 178
--	82.0	MPa	ISO 178
60°C	35.0	MPa	ISO 178
100°C	18.0	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.32		ASTM D3702 Modified
Flexural Strain at Break ³			ISO 178
--	7.0	%	ISO 178
60°C	7.0	%	ISO 178
100°C	7.0	%	ISO 178
Wear Factor - Washer	16.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C)	6.0	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength ⁵ (23°C)	140	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, unannealed, 64.0mm span	139	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	128	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	9.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	8.8E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating (1.70 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 - 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.	Tensile Bar		
2.	2.0 mm/min		
3.	2 mm/min		
4.	80*10*4		
5.	80*10*4		
6.	80*10*4 mm		

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