

LNP™ LUBRICOMP™ DFL32P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP DFL32P is a compound based on Polycarbonate resin containing 10% Glass Fiber, 15% PTFE. Added features include: Internally Lubricated, Exceptional Processing

Also known as: LNP* LUBRICOMP* Compound DFL-4032 EP

Product reorder name: DFL32P

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Workability, good		
	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20 - 0.50	%	Internal method
Water Absorption (23°C, 24 hr)	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	78.0	MPa	ISO 527-2/5
Fracture	78.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	3.1	%	ISO 527-2/5
Fracture	3.2	%	ISO 527-2/5
Flexural Modulus ¹	4700	MPa	ISO 178
Flexural Stress	109	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.41		ASTM D3702 Modified
Flexural Strain at Break ²	4.4	%	ISO 178
Wear Factor - Washer	48.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 64.0mm span	139	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	133	°C	ISO 75-2/Af

Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	4.6E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	7.4E-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 - 304	°C	
Middle Temperature	310 - 321	°C	
Front Temperature	321 - 332	°C	
Processing (Melt) Temp	304 - 327	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	2 mm/min		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		

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