

LNP™ LUBRICOMP™ DFL329 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* DFL329 is a compound based on Polycarbonate resin containing 10% Glass Fiber, 15% PTFE. Added features of this material include: Flame Retardant, Internally Lubricated.

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

Product reorder name: DFL329

General Information			
UL YellowCard	E121562-101284270		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Flame Retardant		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.30	%	ASTM D955
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.49	%	ISO 294-4
Flow : 24 hr	0.33	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4340	MPa	ASTM D638
--	4500	MPa	ISO 527-2/1
Tensile Strength			
Break	75.6	MPa	ASTM D638
Break	74.3	MPa	ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	4270	MPa	ASTM D790
--	4600	MPa	ISO 178
Flexural Strength			
--	129	MPa	ASTM D790
--	127	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	180	J/m	ASTM D256
23°C ²	9.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	550	J/m	ASTM D4812
23°C ³	39	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	18.4	J	ASTM D3763
--	3.88	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	146	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	142	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	141	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	4.5E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.0E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.70 mm, Testing by SABIC)	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	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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