LNP™ LUBRICOMP™ DFL22E compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DFL22E is a compound based on Polycarbonate resin containing 10% Glass Fiber and 10% PTFE. Added features of this material include: Wear Resistant, Easy Molding.
Also known as: LNP* LUBRICOMP* Compound DFL-4022 EM
Product reorder name: DFL22E

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (10%)		
Features	Good Moldability Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density			
--	1.33	g/cm³	ISO 1183
--	1.34	g/cm³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.40 to 0.60	%	ASTM D955
Across Flow : 24 hr	0.60 to 0.80	%	ASTM D955
Across Flow : 24 hr	0.65	%	ISO 294-4
Flow : 24 hr	0.50	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	4140	MPa	ASTM D638
--	4150	MPa	ISO 527-2/1
Tensile Strength			
Yield	71.7	MPa	ASTM D638
Yield	71.0	MPa	ISO 527-2
Break	67.6	MPa	ASTM D638
Break	67.0	MPa	ISO 527-2
Tensile Elongation			
Yield	3.3	%	ASTM D638, ISO 527-2
Break	5.5	%	ASTM D638
Break	5.8	%	ISO 527-2
Flexural Modulus			

--	4140	MPa	ASTM D790
--	3900	MPa	ISO 178
Flexural Stress	118	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.38		
vs. Itself - Static	0.44		
Wear Factor - Washer	166	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C [2]	13	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	740	J/m	ASTM D4812
23°C [3]	49	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	23.2	J	ASTM D3763
--	6.80	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	145	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [4]	146	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	140	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [5]	140	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	5.6E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.6E-5	cm/cm/°C	
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		

5.	80*10*4 mm

Recommended distributors for this material

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