

LNP™ LUBRICOMP™ CZL36 compound

High Impact Polystyrene

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* CZL36 is a compound based on Polystyrene resin containing 30% Milled Glass and 15% PTFE. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-C-01818

Product reorder name: CZL36

General Information			
Filler / Reinforcement	Milled Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.30 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.31 to 0.37	%	ISO 294-4
Flow : 24 hr	0.24 to 0.26	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.090	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2550	MPa	ASTM D638
--	3880	MPa	ISO 527-2/1
Tensile Strength			
Yield	24.6	MPa	ASTM D638
Yield	22.0	MPa	ISO 527-2
Break	24.2	MPa	ASTM D638
Break	21.0	MPa	ISO 527-2
Tensile Elongation			
Yield	1.7	%	ASTM D638
Yield	1.6	%	ISO 527-2
Break	2.3	%	ASTM D638
Break	3.5	%	ISO 527-2
Flexural Modulus			

--	4900	MPa	ASTM D790
--	5120	MPa	ISO 178
Flexural Strength			
--	52.0	MPa	ASTM D790
--	49.4	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	27	J/m	ASTM D256
23°C ²	2.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	120	J/m	ASTM D4812
23°C ³	7.8	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	2.90	J	ASTM D3763
--	0.890	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	83.3	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	83.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	6.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	6.8E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	249	°C	
Mold Temperature	37.8 to 65.6	°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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