

LNP™ LUBRICOMP™ KZL16 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* KZL16 is a compound based on Acetal Copolymer resin containing 30% Glass Fiber, Milled Glass and 5% PTFE. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound KFL-4016 M

Product reorder name: KZL16

General Information			
Filler / Reinforcement	Glass Milled\Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (5%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	1.4	%	ASTM D955
Across Flow : 24 hr	1.6	%	ASTM D955
Across Flow : 24 hr	1.3	%	ISO 294-4
Flow : 24 hr	1.5	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.16	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.29	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6140	MPa	ASTM D638
--	5800	MPa	ISO 527-2/1
Tensile Strength			
Yield	56.3	MPa	ASTM D638
Yield	49.0	MPa	ISO 527-2
Break	56.3	MPa	ASTM D638
Break	46.8	MPa	ISO 527-2
Tensile Elongation			
Yield	3.6	%	ASTM D638
Yield	2.3	%	ISO 527-2
Break	2.6	%	ASTM D638
Break	4.0	%	ISO 527-2
Flexural Modulus			

--	5310	MPa	ASTM D790
--	6300	MPa	ISO 178
Flexural Strength	92.7	MPa	ASTM D790, ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.50		
vs. Itself - Static	0.43		
Wear Factor - Washer	920	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C ²	3.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	210	J/m	ASTM D4812
23°C ³	17	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.10	J	ASTM D3763
--	2.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	161	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	133	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	147	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	177 to 188	°C	
Middle Temperature	193 to 204	°C	
Front Temperature	210 to 221	°C	
Processing (Melt) Temp	199 to 216	°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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