

LNP™ LUBRICOMP™ KFL32R compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* KFL32R is a compound based on Acetal Copolymer resin containing 10% Glass Fiber, 15% PTFE. Added feature of this material is: Easy Release, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound KFL-4032 ER

Product reorder name: KFL32R

General Information			
UL YellowCard	E121562-101282878		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Mold Release		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.1	%	
Across Flow : 24 hr	1.3	%	
Water Absorption			
24 hr, 50% RH	0.18	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.33	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	5100	MPa	ASTM D638
--	5400	MPa	ISO 527-2/1
Tensile Strength			
Break	79.8	MPa	ASTM D638
Break	79.0	MPa	ISO 527-2
Tensile Elongation			
Break	2.6	%	ASTM D638
Break	2.5	%	ISO 527-2
Flexural Modulus			
--	4830	MPa	ASTM D790
--	5800	MPa	ISO 178
Flexural Strength			
--	116	MPa	ASTM D790

--	123	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	5.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	350	J/m	ASTM D4812
23°C ³	26	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.80	J	ASTM D3763
--	1.75	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	165	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	161	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	162	°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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