

LNP™ LUBRICOMP™ KFL25 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* KFL25 is a compound based on Acetal Copolymer resin containing 25% Glass Fiber, 10% PTFE. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound KFL-4025

Product reorder name: KFL25

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Additive	PTFE Lubricant (10%)		
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	0.50	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	1.0	%	ASTM D955
Across Flow : 24 hr	0.96	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.19	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10200	MPa	ASTM D638
--	9880	MPa	ISO 527-2/1
Tensile Strength			
Break	85.9	MPa	ASTM D638
Break	84.0	MPa	ISO 527-2
Tensile Elongation (Break)	1.3	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	9110	MPa	ASTM D790
--	9200	MPa	ISO 178
Flexural Strength			
--	132	MPa	ASTM D790
--	131	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ²	5.3	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	290	J/m	ASTM D4812
23°C ³	19	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.62	J	ASTM D3763
--	1.77	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	166	°C	ASTM D648
CLTE			
Flow : -40 to 40°C	8.2E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	8.3E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	6.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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		

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