LNP™ LUBRICOMP™ KCL34A compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KCL34A is a compound based on Acetal Homopolymer resin containing 15% PTFE, 20% Carbon Fiber. Added features of this material include: Wear Resistant, Electrically Conductive.
Also known as: LNP* LUBRICOMP* Compound KCL-4034 D
Product reorder name: KCL34A

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Electrically Conductive Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.56	g/cm³	ASTM D792
--	1.55	g/cm³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	1.3	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.73	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.30	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	17200	MPa	ASTM D638
--	15500	MPa	ISO 527-2/1
Tensile Strength			
Yield	87.6	MPa	ASTM D638
Yield	88.0	MPa	ISO 527-2
Break	87.6	MPa	ASTM D638
Break	88.0	MPa	ISO 527-2
Tensile Elongation			
Yield	0.70	%	ASTM D638
Yield	0.73	%	ISO 527-2
Break	0.70	%	ASTM D638
Break	0.72	%	ISO 527-2
Flexural Modulus			

--	13100	MPa	ASTM D790
--	15000	MPa	ISO 178
Flexural Strength			
--	110	MPa	ASTM D790
--	117	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.35		
vs. Itself - Static	0.32		
Wear Factor - Washer	69.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C [2]	3.6	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	270	J/m	ASTM D4812
23°C [3]	17	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	4.40	J	ASTM D3763
--	1.90	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	175	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [4]	175	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	171	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [5]	170	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	6.6E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	2.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	6.8	ohms	ASTM D257
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
5.	80*10*4 mm

Recommended distributors for this material

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