

LNP™ LUBRICOMP™ KCL34A compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KCL34A is a compound based on Acetal Homopolymer resin containing PTFE, Carbon Fiber. Added features of this material include: Internally Lubricated, Electrically Conductive.

Also known as: LNP* LUBRICOMP* Compound KCL-4034 D

Product reorder name: KCL34A

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Conductivity		
	Lubrication		

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.56	g/cm ³	ASTM D792
--	1.55	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.70	%	ASTM D955
Transverse flow: 24 hours	1.3	%	ASTM D955
Vertical flow direction: 24 hours	1.3	%	ISO 294-4
Flow direction: 24 hours	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
Fracture	87.6	MPa	ASTM D638
Fracture	88.0	MPa	ISO 527-2
Tensile Elongation			
Yield	0.70	%	ASTM D638
Yield	0.73	%	ISO 527-2
Fracture	0.70	%	ASTM D638
Fracture	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			
With self-dynamics	0.35		ASTM D3702 Modified
With Self-Static	0.32		ASTM D3702 Modified
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/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	270	J/m	ASTM D4812
23°C ³	17	kJ/m ²	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, 3.20mm	175	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	175	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	171	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	170	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
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
Lateral: -40 to 40°C	2.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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