

LNP™ LUBRICOMP™ COMPOUND KAL22

KAL-4022
REGION AMERICAS

DESCRIPTION

LNP LUBRICOMP KAL22 is a compound based on Acetal Copolymer resin containing 10% PTFE, 10% Aramid Fiber. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	58	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	6.5	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	7.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	3630	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	3090	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	57	MPa	ISO 527
Tensile Stress, break, 5 mm/min	56	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6.3	%	ISO 527
Tensile Strain, break, 5 mm/min	7.4	%	ISO 527
Tensile Modulus, 1 mm/min	3450	MPa	ISO 527
Flexural Stress	77	MPa	ISO 178
Flexural Modulus, 2 mm/min	3070	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	512	J/m	ASTM D 4812
Izod Impact, notched, 23°C	54	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	162	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	132	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	87	°C	ISO 75/Af
PHYSICAL			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Specific Gravity	1.46	-	ASTM D 792
Mold Shrinkage on Tensile Bar, flow (2) (5)	1.8 – 2.2	%	SABIC method
Mold Shrinkage, flow, 24 hrs (5)	2 – 4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2 – 4	%	ASTM D 955
Wear Factor Washer	8	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Wear Factor Ring	0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.23	-	ASTM D 3702 Modified: Manual
Static COF	0.16	-	ASTM D 3702 Modified: Manual
Density	1.45	g/cm ³	ISO 1183
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Melt Temperature	200 – 215	°C	
Front - Zone 3 Temperature	210 – 220	°C	
Middle - Zone 2 Temperature	195 – 205	°C	
Rear - Zone 1 Temperature	175 – 190	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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