

LNP™ LUBRICOMP™ COMPOUND KL004

FULTON 404 & KL-4040
REGION EUROPE

DESCRIPTION

LNP LUBRICOMP* KL004 is a compound based on Acetal Copolymer resin containing 20% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	47	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	10	%	ISO 527
Tensile Strain, break, 5 mm/min	23	%	ISO 527
Tensile Modulus, 1 mm/min	2400	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	58	MPa	ISO 178
Flexural Strain, break, 2 mm/min	7	%	ISO 178
Flexural Modulus, 2 mm/min	1800	MPa	ISO 178
Flexural Strain, break, 2 mm/min, 60°C	7	%	ISO 178
Flexural Strain, break, 2 mm/min, 100°C	7	%	ISO 178
Flexural Stress, yield, 2 mm/min, 60°C	34	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 100°C	18	MPa	ISO 178
Flexural Modulus, 2 mm/min, 60°C	1100	MPa	ISO 178
Flexural Modulus, 2 mm/min, 100°C	600	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	45	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	1.1E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.11E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	98	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	1.97 – 2.5	%	ISO 294

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Mold Shrinkage, xflow, 24 hrs (5)	1.97 – 2.5	%	ISO 294
Wear Factor Washer	10	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.29	-	ASTM D 3702 Modified: Manual
Static COF	0.15	-	ASTM D 3702 Modified: Manual
Density	1.52	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.26	%	ISO 62
Melt Volume Rate, MVR at 190°C/5.0 kg	18 – 21	cm ³ /10 min	ISO 1133
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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