

LNP™ LUBRICOMP™ COMPOUND GL003

GL-4030

REGION AMERICAS

DESCRIPTION

LNP* LUBRICOMP* GL003 is a compound based on Polysulfone resin containing 15% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	55	MPa	ASTM D 638
Tensile Strain, break	9.9	%	ASTM D 638
Flexural Stress	75	MPa	ASTM D 790
Tensile Stress, break	55	MPa	ISO 527
Tensile Strain, break	11.8	%	ISO 527
Flexural Stress	79	MPa	ISO 178
Flexural Modulus	2300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	891	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	54	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	352	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	337	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	179	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	169	°C	ISO 75/Af
PHYSICAL			
Density	1.31	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 – 0.9	%	ASTM D 955

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow, 24 hrs (5)	0.76	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.83	%	ISO 294
Wear Factor Washer	24	10 ⁴ -10 ⁵ in ³ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.23	-	ASTM D 3702 Modified: Manual
Static COF	0.12	-	ASTM D 3702 Modified: Manual
Density	1.31	g/cm ³	ISO 1183
MECHANICAL PROPERTIES			
Flexural modulus	2060	MPa	ISO 178/1A
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	360 – 370	°C	
Front - Zone 3 Temperature	350 – 360	°C	
Middle - Zone 2 Temperature	340 – 350	°C	
Rear - Zone 1 Temperature	325 – 340	°C	
Mold Temperature	150	°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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