LNP™ LUBRICOMP™ COMPOUND GL003

GL-4030
REGION ASIA

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 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	55	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	55	MPa	ASTM D 638
Tensile Strain, break	9.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	10	%	ASTM D 638
Flexural Stress	75	MPa	ASTM D 790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	82	MPa	ASTM D 790
Flexural Modulus	2060	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2070	MPa	ASTM D 790
Tensile Stress, break	55	MPa	ISO 527
Tensile Stress, break, 5 mm/min	55	MPa	ISO 527
Tensile Strain, break	11.8	%	ISO 527
Tensile Strain, break, 5 mm/min	11.8	%	ISO 527
Flexural Stress	78	MPa	ISO 178
Flexural Stress, yield, 2 mm/min	78	MPa	ISO 178
Flexural Modulus	2300	MPa	ISO 178
Flexural Modulus, 2 mm/min	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	70	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	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	175	°C	ISO 75/Af
PHYSICAL			
Density	1.31	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow	0.76	%	SABIC method
Mold Shrinkage, xflow	0.83	%	SABIC method
Mold Shrinkage, flow, 24 hrs	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ASTM D 955

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Mold Shrinkage, flow, 24 hrs	0.76	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.83	%	ISO 294
Wear Factor Washer	24	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.23	-	ASTM D 3702 Modified: Manual
Static COF	0.12	-	ASTM D 3702 Modified: Manual
Density	1.31	g/cm³	ISO 1183
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	

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