LNP™ LUBRICOMP™ COMPOUND LL004

LL-4040
REGION ASIA

DESCRIPTION

LNP LUBRICOMP* LL004 is a compound based on Polyetheretherketone resin containing 20% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20181219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	74	MPa	ASTM D 638
Tensile Stress, break	69	MPa	ASTM D 638
Tensile Strain, yield	5.8	%	ASTM D 638
Tensile Strain, break	23.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	2890	MPa	ASTM D 638
Flexural Stress	117	MPa	ASTM D 790
Flexural Modulus	2960	MPa	ASTM D 790
Tensile Stress, yield	73	MPa	ISO 527
Tensile Stress, break	69	MPa	ISO 527
Tensile Strain, yield	5	%	ISO 527
Tensile Strain, break	11.8	%	ISO 527
Tensile Modulus, 1 mm/min	3060	MPa	ISO 527
Flexural Stress	118	MPa	ISO 178
Flexural Modulus	3320	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1553	J/m	ASTM D 4812
Izod Impact, notched, 23°C	96	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	2	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	91	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
PHYSICAL			
Density	1.37	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.06	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.85	%	ISO 294
Wear Factor Washer	128	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.52	-	ASTM D 3702 Modified: Manual
Static COF	0.43	-	ASTM D 3702 Modified: Manual
Density	1.37	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.12	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	380 – 390	°C	
Front - Zone 3 Temperature	380 – 395	°C	
Middle - Zone 2 Temperature	365 – 375	°C	
Rear - Zone 1 Temperature	350 – 360	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

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