LNP™ LUBRICOMP™ COMPOUND DP003

DL-4530
REGION ASIA

DESCRIPTION

LNP* LUBRICOMP* DP003 is a compound based on Polycarbonate resin containing 15% PTFE/Silicone. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	48	MPa	ASTM D 638
Tensile Stress, break	42	MPa	ASTM D 638
Tensile Strain, yield	5.6	%	ASTM D 638
Tensile Strain, break	35.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	2230	MPa	ASTM D 638
Flexural Stress	75	MPa	ASTM D 790
Flexural Modulus	1890	MPa	ASTM D 790
Tensile Stress, yield	49	MPa	ISO 527
Tensile Stress, break	41	MPa	ISO 527
Tensile Strain, yield	5.8	%	ISO 527
Tensile Strain, break	41.2	%	ISO 527
Tensile Modulus, 1 mm/min	2000	MPa	ISO 527
Flexural Stress	75	MPa	ISO 178
Flexural Modulus	1840	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	283	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	28	J	ASTM D 3763
Multiaxial Impact	61	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	25	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	127	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	128	°C	ISO 75/Af
PHYSICAL			
Density	1.26	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.9 – 1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 – 1.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.8 – 1	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1 – 1.2	%	ISO 294
Wear Factor Washer	42	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.1	-	ASTM D 3702 Modified: Manual

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Static COF	0.26	-	ASTM D 3702 Modified: Manual
Density	1.26	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.19	%	ISO 62
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101343863	-	-
UL Recognized, 94V-1 Flame Class Rating	≥3	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	300 – 315	°C	
Front - Zone 3 Temperature	310 – 320	°C	
Middle - Zone 2 Temperature	305 – 315	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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