LNP™ LUBRICOMP™ COMPOUND RCP36

RCL-4536
REGION ASIA

DESCRIPTION

LNP LUBRICOMP* RCP36 is a compound based on Nylon 66 resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Electrically Conductive, Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20190609

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	201	MPa	ASTM D 638
Tensile Strain, break	1.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	29500	MPa	ASTM D 638
Flexural Stress	333	MPa	ASTM D 790
Flexural Modulus	16400	MPa	ASTM D 790
Tensile Stress, break	228	MPa	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	23100	MPa	ISO 527
Flexural Stress	354	MPa	ISO 178
Flexural Modulus	21300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	945	J/m	ASTM D 4812
Izod Impact, notched, 23°C	96	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	9	J	ASTM D 3763
Multiaxial Impact	2	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	65	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	254	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	244	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	240	°C	ISO 75/Af
PHYSICAL			
Density	1.34	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.93	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.15	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.43	%	ISO 294
Wear Factor Washer	6	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.25	-	ASTM D 3702 Modified: Manual
Static COF	0.22	-	ASTM D 3702 Modified: Manual
Density	1.34	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	1.35	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-101281629	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	275 – 290	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	80 – 95	°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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