LNP™ LUBRICOMP™ COMPOUND OCP36

O-BG
REGION ASIA

DESCRIPTION

LNP* LUBRICOMP* OCP36 is a compound based on Polyphenylene Sulfide resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this grade include: Wear Resistant, Bearing Grade, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191108

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	253	MPa	ASTM D 638
Tensile Strain, break	1.6	%	ASTM D 638
Tensile Modulus, 5 mm/min	26120	MPa	ASTM D 638
Flexural Stress	253	MPa	ASTM D 790
Flexural Modulus	21400	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	166	MPa	ISO 527
Tensile Stress, break, 5 mm/min	166	MPa	ISO 527
Tensile Strain, break, 5 mm/min	0.9	%	ISO 527
Tensile Modulus, 1 mm/min	24890	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	254	MPa	ISO 178
Flexural Stress, break, 2 mm/min	254	MPa	ISO 178
Flexural Strain, break, 2 mm/min	1.4	%	ISO 178
Flexural Modulus, 2 mm/min	22240	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	485	J/m	ASTM D 4812
Izod Impact, notched, 23°C	53	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	260	°C	ASTM D 648
Relative Temp Index, Elec [1]	130	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	130	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	130	°C	UL 746B
PHYSICAL			
Density	1.51	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4 – 0.6	%	ASTM D 955
Wear Factor Washer	24	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.47	-	ASTM D 3702 Modified: Manual
Static COF	0.33	-	ASTM D 3702 Modified: Manual
ELECTRICAL			
Surface Resistivity	1.E+02	Ohm	ASTM D 257
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-103093472	-	-

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Recognized, 94V-0 Flame Class Rating	0.94	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Melt Temperature	315 – 320	°C	
Front - Zone 3 Temperature	330 – 345	°C	
Middle - Zone 2 Temperature	320 – 330	°C	
Rear - Zone 1 Temperature	305 – 315	°C	
Mold Temperature	140 – 165	°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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