LNP™ LUBRICOMP™ COMPOUND OCP36A

OCL-4536
REGION ASIA

DESCRIPTION

LNP* LUBRICOMP* OCP36A is a compound based on PPS - Branched resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Wear Resistant, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	127	MPa	ASTM D 638
Tensile Stress, break	119	MPa	ASTM D 638
Tensile Strain, yield	0.9	%	ASTM D 638
Tensile Strain, break	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	18610	MPa	ASTM D 638
Flexural Stress	229	MPa	ASTM D 790
Flexural Modulus	20130	MPa	ASTM D 790
Tensile Stress, yield	113	MPa	ISO 527
Tensile Stress, break	113	MPa	ISO 527
Tensile Strain, yield	0.7	%	ISO 527
Tensile Strain, break	0.7	%	ISO 527
Tensile Modulus, 1 mm/min	19880	MPa	ISO 527
Flexural Stress	176	MPa	ISO 178
Flexural Modulus	19000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	320	J/m	ASTM D 4812
Izod Impact, notched, 23°C	37	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	13	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	273	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	258	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.6E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.2E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.6E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.E-06	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	272	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	248	°C	ISO 75/Af
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

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL			
Density	1.49	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.15	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.66	%	ISO 294
Wear Factor Washer	15	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.36	-	ASTM D 3702 Modified: Manual
Static COF	0.3	-	ASTM D 3702 Modified: Manual
Density	1.53	g/cm³	ISO 1183
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-103093472	-	-
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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