LNP™ LUBRICOMP™ Compound OFL36A

OFL-4036
REGION AMERICAS

DESCRIPTION

LNP LUBRICOMP OFL36A compound is based on Polyphenylene Sulfide (PPS) - branched resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, High stiffness/Strength
Fillers	Glass Fiber, PTFE
Polymer Types	Polyphenylene Sulfide, Branched (PPS, Branched)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20260903

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, break	144	MPa	ASTM D638
Tensile Strain, break	1.7	%	ASTM D638
Tensile Modulus, 50 mm/min	12340	MPa	ASTM D638
Flexural Stress	199	MPa	ASTM D790
Flexural Modulus	11030	MPa	ASTM D790
Tensile Stress, break	124	MPa	ISO 527
Tensile Strain, break	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	11100	MPa	ISO 527
Flexural Stress	197	MPa	ISO 178
Flexural Modulus	10950	MPa	ISO 178
IMPACT [1]			
Izod Impact, Unnotched			
23°C	550	J/m	ASTM D4812
80*10*4 +23°C	26	kJ/m²	ISO 180/1U
Izod impact, notched			
23°C	85	J/m	ASTM D256
80*10*4 +23°C	7	kJ/m²	ISO 180/1A
Instrumented Dart Impact Energy @ peak, 23°C	3	J	ASTM D3763
Multiaxial Impact	1	J	ISO 6603

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	268	°C	ASTM D648
CTE, -40°C to 40°C, flow	2.34E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	4.86E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	2.36E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.01E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	266	°C	ISO 75/Af
Relative Temp Index, Elec [2]	200	°C	UL 746B
Relative Temp Index, Mech w/impact [2]	130	°C	UL 746B
Relative Temp Index, Mech w/o impact [2]	130	°C	UL 746B
PHYSICAL [1]			
Density	1.69	g/cm³	ASTM D792
Mold Shrinkage, flow, 24 hrs [3]	0.1 – 0.2	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs [3]	0.3 – 0.5	%	ASTM D955
Mold Shrinkage, flow, 24 hrs [3]	0.13 – 0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs [3]	0.3 – 0.48	%	ISO 294
Wear Factor Washer	33	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.44	-	ASTM D3702 Modified: Manual
Static COF	0.35	-	ASTM D3702 Modified: Manual
Density	1.69	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.04	%	ISO 62
ELECTRICAL [1]			
Comparative Tracking Index (UL) {PLC} [2]	4	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0 [2]	≥1.5	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 3 [2]	≥0.75	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0 [2]	≥1.5	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 2 [2]	≥0.75	mm	UL 746A
High Voltage Arc Track Rate {PLC} [2]	4	PLC Code	UL 746A
Arc Resistance, Tungsten {PLC} [2]	7	PLC Code	ASTM D495
FLAME CHARACTERISTICS [2]			
UL Yellow Card Link	E121562-101283823	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.75	mm	UL 94
Glow Wire Ignitability Temperature, 0.75 mm	800	°C	IEC 60695-2-13
Glow Wire Flammability Index, 0.75 mm	960	°C	IEC 60695-2-12
INJECTION MOLDING [4]			
Drying Temperature	120 – 150	°C	
Drying Time	4	Hrs	
Melt Temperature	315 – 340	°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	

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(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) 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.

(3) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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