

LNPT[™] LUBRICOMP[™] COMPOUND LX00430

PDX-L-00430

DESCRIPTION

LNP LUBRICOMP LX00430 compound is based on Polyetheretherketone (PEEK) resin containing proprietary fillers. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION

Features	Wear resistant, High temperature resistance
Fillers	Unreinforced
Polymer Types	Polyetheretherketone (PEEK)
Processing Techniques	Injection Molding

INDUSTRY

Building and Construction
Consumer
Electrical and Electronics
Industrial

SUB INDUSTRY

Building Component
Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Mobile Phone - Computer - Tablets
Electrical

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yld, Type I, 5 mm/min	80	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	76	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	6.4	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	35	%	ASTM D638
Tensile Modulus, 50 mm/min	3360	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	3220	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	77	MPa	ISO 527
Tensile Stress, break, 5 mm/min	75	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6.1	%	ISO 527
Tensile Strain, break, 5 mm/min	12.8	%	ISO 527
Tensile Modulus, 1 mm/min	3160	MPa	ISO 527
Flexural Stress	104	MPa	ISO 178
Flexural Modulus, 2 mm/min	2890	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	1850	J/m	ASTM D4812
Izod Impact, notched, 23°C	85	J/m	ASTM D256
Multiaxial Impact	2	J	ISO 6603
Instrumented Dart Impact Total Energy, 23°C	5	J	ASTM D3763
Izod Impact, unnotched 80°10°4 +23°C	101	kJ/m ²	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	7	kJ/m ²	ISO 180/1A

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CHEMISTRY THAT MATTERS[™]

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	153	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	147	°C	ASTM D648
CTE, -30°C to 30°C, flow	5.4E-05	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	6.0E-05	1/°C	ASTM D696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	158	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	146	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Specific Gravity	1.39	-	ASTM D792
Density	1.38	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.06	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.7 – 1	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1 – 3	%	ASTM D955
Wear Factor Washer	21	10 ⁻⁴ in ³ /min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.47	-	ASTM D3702 Modified: Manual
Static COF	0.52	-	ASTM D3702 Modified: Manual
Moisture Absorption (23°C / 50% RH)	0.08	%	ISO 62
INJECTION MOLDING ⁽³⁾			
Drying Temperature	150	°C	
Drying Time	4 – 6	Hrs	
Front - Zone 3 Temperature	380 – 400	°C	
Middle - Zone 2 Temperature	380 – 400	°C	
Rear - Zone 1 Temperature	370 – 380	°C	
Mold Temperature	175 – 190	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

(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) 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.

(3) 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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