

Revision 20241017

## LNPTM LUBRICOMPTM COMPOUND LX91475

LTW REGION EUROPE

## DESCRIPTION

LNP LUBRICOMP LX91475 compound is based on Polyetheretherketone (PEEK) resin containing proprietary fillers. Added features of this grade include: Easy Molding, High Temperature Bearing Grade, Wear Resistant.

GENERAL INFORMATION	
Features	Good Processability, Wear resistant, Dimensional stability, High temperature resistance
Fillers	Proprietary Filler
Polymer Types	Polyetheretherketone (PEEK)
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

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL<sup>(1)</sup> 148 MPa Tensile Stress, yield, 5 mm/min ISO 527 Tensile Stress, break, 5 mm/min 148 MPa ISO 527 Tensile Strain, yield, 5 mm/min 2.8 % ISO 527 Tensile Strain, break, 5 mm/min 2.9 % ISO 527 Tensile Modulus, 1 mm/min 11840 MPa ISO 527 211 Flexural Stress, yield, 2 mm/min MPa ISO 178 Flexural Stress, break, 2 mm/min 210 MPa ISO 178 Flexural Strain, break, 2 mm/min 3.3 % ISO 178 9700 Flexural Modulus, 2 mm/min MPa ISO 178 IMPACT (1) Izod Impact, unnotched 80\*10\*4 +23°C 40 ISO 180/1U kI/m<sup>2</sup> Izod Impact, notched 80\*10\*4 +23°C 8 kJ/m² ISO 180/1A THERMAL (1) CTE, 23°C to 60°C, flow 4.4E-05 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 4 8F-05 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80\*10\*4 sp=64mm °C ISO 75/Bf >300 °C HDT/Af, 1.8 MPa Flatw 80\*10\*4 sp=64mm >300 ISO 75/Af PHYSICAL (1) Mold Shrinkage, flow (2) SABIC method 0.1 - 0.2 %

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CHEMISTRY THAT MATTERS



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Wear Factor Washer	10	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Instr.
Dynamic COF	0.28	-	ASTM D3702 Modified: Instr.
Static COF	0.56		ASTM D3702 Modified: Instr.
Density	1.43	g/cm <sup>3</sup>	ISO 1183
Water Absorption, (23°C/24hrs)	0.09	%	ISO 62-1
FLAME CHARACTERISTICS (3)			
UL Yellow Card Link	E45329-101284429		
UL Recognized, 94V-0 Flame Class Rating	0.72	mm	UL 94
INJECTION MOLDING (4)			
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) 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.

(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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