

# LNPTM LUBRICOMPTM COMPOUND ZX05506

ZML-4334

### **DESCRIPTION**

LNP LUBRICOMP ZX05506 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 15% graphite powder, 5% PTFE, 20% minerals. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, Dimensional stability
Fillers	Mineral, Graphite, PTFE
Polymer Types	Polyphenylene Ether + PS (PPE+PS)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component, Water Management
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> MPa ASTM D638 Tensile Stress, break 52 Tensile Strain, break 2.4 % ASTM D638 4890 MPa ASTM D638 Tensile Modulus, 50 mm/min **Flexural Stress** 99 MPa ASTM D790 Flexural Modulus 4960 MPa ASTM D790 ISO 527 Tensile Stress, break 50 MPa Tensile Strain, break 2.5 % ISO 527 Tensile Modulus, 1 mm/min 4910 MPa ISO 527 Flexural Stress 94 MPa ISO 178 Flexural Modulus 5370 MPa ISO 178 IMPACT (1) Izod Impact, unnotched, 23°C 176 J/m ASTM D4812 32 Izod Impact, notched, 23°C J/m ASTM D256 ASTM D3763 Instrumented Dart Impact Energy @ peak, 23°C 3 J Multiaxial Impact 1 J ISO 6603 12 Izod Impact, unnotched 80\*10\*4 +23°C kJ/m² ISO 180/1U Izod Impact, notched 80\*10\*4 +23°C 2 ISO 180/1A kJ/m² THERMAL (1) HDT, 1.82 MPa, 3.2mm, unannealed 121 °C ASTM D648 HDT/Af, 1.8 MPa Flatw 80\*10\*4 sp=64mm °C ISO 75/Af 126

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# CHEMISTRY THAT MATTERS

Revision 20241017



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL <sup>(1)</sup>			
Density	1.35	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage, flow, 24 hrs <sup>(2)</sup>	0.5	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs <sup>(2)</sup>	0.5	%	ASTM D955
Mold Shrinkage, flow, 24 hrs <sup>(2)</sup>	0.5	%	ISO 294
Mold Shrinkage, xflow, 24 hrs <sup>(2)</sup>	0.54	%	ISO 294
Wear Factor Washer	174	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.34	-	ASTM D3702 Modified: Manual
Static COF	0.34	-	ASTM D3702 Modified: Manual
Density	1.35	g/cm <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.05	%	ISO 62
INJECTION MOLDING <sup>(3)</sup>			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Melt Temperature	300 - 305	°C	
Front - Zone 3 Temperature	300 - 310	°C	
Middle - Zone 2 Temperature	290 – 300	°C	
Rear - Zone 1 Temperature	275 – 290	°C	
Mold Temperature	80 - 110	°C	
Back Pressure	0.2 - 0.3	MPa	
Screw Speed	30 - 60	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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