

Product Texts

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.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4910	MPa	ISO 527
Stress at break	50	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus	5370	MPa	ISO 178
Flexural strength	94	MPa	ISO 178
Izod impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	4890	MPa	ASTM D 638
Tensile Strength at Break	52	MPa	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	4960	MPa	ASTM D 790
Flexural Strength	99	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	176	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	126	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	121	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.05	%	Sim. to ISO 62
Density	1350	kg/m ³	ISO 1183
Density	1350	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Melt temperature	300 - 305	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	275 - 290	°C	-
Zone 2	290 - 300	°C	-
Zone 3	300 - 310	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific