

Product Texts

LNP LUBRICOMP WFP36 compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass fiber, 15% PTFE/silicone. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.75	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10000	MPa	ISO 527
Stress at break	118	MPa	ISO 527
Strain at break	2.7	%	ISO 527
Flexural modulus	9350	MPa	ISO 178
Flexural strength	189	MPa	ISO 178
Izod impact strength, +23°C, 4mm	35	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	10280	MPa	ASTM D 638
Tensile Strength at Break	113	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	8740	MPa	ASTM D 790
Flexural Strength	193	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	576	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	208	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	213	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1570	kg/m ³	ISO 1183
Water Absorption, 24hr	0.4	%	ASTM D 570
Density	1580	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	240 - 265	°C	-
Mold temperature	80 - 100	°C	-
Zone 1	220 - 230	°C	-
Zone 2	245 - 255	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
Asia Pacific