

Product Texts

LNP LUBRICOMP WBL36L compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass bead, 15% PTFE. Added features of this grade include: Wear Resistant, Low Extractables.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	2.4	%	ISO 294-4, 2577
Molding shrinkage, normal	1.9	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	2	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.85	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4020	MPa	ISO 527
Yield stress	37	MPa	ISO 527
Yield strain	2.4	%	ISO 527
Stress at break	36	MPa	ISO 527
Strain at break	3.4	%	ISO 527
Flexural modulus	4140	MPa	ISO 178
Izod impact strength, +23°C, 4mm	18	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	4130	MPa	ASTM D 638
Tensile Strength at Yield	37	MPa	ASTM D 638
Tensile Strength at Break	36	MPa	ASTM D 638
Elongation at Yield	2.2	%	ASTM D 638
Elongation at Break	3.1	%	ASTM D 638
Flexural Modulus	3900	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	256	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	94	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	184	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	74	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	71	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	188	°C	ASTM D 648
DTUL @ 264 psi	95	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1690	kg/m ³	ISO 1183
Water Absorption, 24hr	0.04	%	ASTM D 570
Density	1690	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 - 250	°C	-
Mold temperature	80 - 100	°C	-
Zone 1	220 - 230	°C	-
Zone 2	240 - 250	°C	-
Zone 3	250 - 260	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

Asia Pacific