

Product Texts

LNP LUBRICOMP IZL33 compound is based on Nylon 6/12 resin containing 15% milled glass and 15% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	1.9	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3340	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	44	MPa	ISO 527
Strain at break	7	%	ISO 527
Flexural modulus	2710	MPa	ISO 178
Izod impact strength, +23°C, 4mm	13	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	3410	MPa	ASTM D 638
Tensile Strength at Break	44	MPa	ASTM D 638
Elongation at Yield	3.3	%	ASTM D 638
Elongation at Break	4.6	%	ASTM D 638
Flexural Modulus	2500	MPa	ASTM D 790
Flexural Strength	73	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	188	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	89	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	175	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	190	°C	ASTM D 648
DTUL @ 264 psi	128	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.11	%	Sim. to ISO 62
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1300	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	82	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.2	%	-
Melt temperature	271 - 276	°C	-
Mold temperature	65 - 93	°C	-
Zone 1	254 - 265	°C	-
Zone 2	260 - 271	°C	-
Zone 3	271 - 282	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.17 - 0.34	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific