

Product Texts

LNP LUBRICOMP DBL32 compound is based on Polycarbonate (PC) resin containing 10% glass bead and 15% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2580	MPa	ISO 527
Yield stress	43	MPa	ISO 527
Yield strain	5.1	%	ISO 527
Stress at break	38	MPa	ISO 527
Strain at break	18.2	%	ISO 527
Flexural modulus	2400	MPa	ISO 178
Flexural strength	69	MPa	ISO 178
Izod impact strength, +23°C, 4mm	105	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2060	MPa	ASTM D 638
Tensile Strength at Yield	42	MPa	ASTM D 638
Tensile Strength at Break	38	MPa	ASTM D 638
Elongation at Yield	5.4	%	ASTM D 638
Elongation at Break	22.3	%	ASTM D 638
Flexural Modulus	2750	MPa	ASTM D 790
Izod Impact notched, 1/8 in	192	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1500	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	135	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	142	°C	ASTM D 648
DTUL @ 264 psi	135	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1370	kg/m ³	ISO 1183
Density	1370	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	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific