

Product Texts

LNP LUBRICOMP DCP32 compound is based on Polycarbonate (PC) resin containing 15% PTFE/silicone, 10% carbon fiber. Added features of this grade include: Electrically Conductive, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.4	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	7470	MPa	ISO 527
Yield stress	93	MPa	ISO 527
Yield strain	2.2	%	ISO 527
Stress at break	93	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Flexural modulus	6700	MPa	ISO 178
Flexural strength	142	MPa	ISO 178
Izod impact strength, +23°C, 4mm	28	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7580	MPa	ASTM D 638
Tensile Strength at Yield	92	MPa	ASTM D 638
Tensile Strength at Break	92	MPa	ASTM D 638
Elongation at Yield	2.2	%	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	6210	MPa	ASTM D 790
Izod Impact notched, 1/8 in	90	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	443	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	144	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	148	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	147	°C	ASTM D 648
DTUL @ 264 psi	143	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1300	kg/m ³	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1300	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

Special Characteristics

Increased electrical conductivity