

Product Texts

LNP LUBRICOMP QCP36 compound is based on Nylon 6/10 resin containing 15% PTFE/silicone, 30% carbon fiber. Added features of this grade include: Wear Resistant. Electrically Conductive

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	19200	MPa	ISO 527
Yield stress	188	MPa	ISO 527
Yield strain	1.9	%	ISO 527
Stress at break	188	MPa	ISO 527
Strain at break	6.2	%	ISO 527
Flexural modulus	17000	MPa	ISO 178
Flexural strength	280	MPa	ISO 178
Izod impact strength, +23°C, 4mm	49	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	19850	MPa	ASTM D 638
Tensile Strength at Yield	173	MPa	ASTM D 638
Tensile Strength at Break	173	MPa	ASTM D 638
Elongation at Yield	1.9	%	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	16540	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	801	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	212	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	222	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	221	°C	ASTM D 648
DTUL @ 264 psi	212	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1320	kg/m ³	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1320	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.2	%	-
Melt temperature	270 - 275	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	250 - 260	°C	-
Zone 2	260 - 270	°C	-
Zone 3	270 - 280	°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