

Product Texts

LNP LUBRICOMP QP004 compound is based on Nylon 6/10 resin containing 20% PTFE/silicone. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	2.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2170	MPa	ISO 527
Yield stress	48	MPa	ISO 527
Yield strain	9	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	9.2	%	ISO 527
Flexural modulus	1990	MPa	ISO 178
Flexural strength	69	MPa	ISO 178
Izod impact strength, +23°C, 4mm	25	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2230	MPa	ASTM D 638
Tensile Strength at Yield	48	MPa	ASTM D 638
Tensile Strength at Break	48	MPa	ASTM D 638
Elongation at Yield	10.5	%	ASTM D 638
Elongation at Break	10.9	%	ASTM D 638
Flexural Modulus	2040	MPa	ASTM D 790
Izod Impact notched, 1/8 in	29	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	414	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	55	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	138	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	113	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	108	E-6/K	ASTM D 696
DTUL @ 66 psi	170	°C	ASTM D 648
DTUL @ 264 psi	57	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.51	%	Sim. to ISO 62
Water Absorption, 24hr	0.33	%	ASTM D 570
Density	1190	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