

Product Texts

LNP LUBRICOMP RP004S compound is based on Nylon 6/6 resin containing 20% PTFE/silicone. Added features of this grade include: Heat Stabilized, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	2	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2750	MPa	ISO 527
Yield stress	65	MPa	ISO 527
Yield strain	4.8	%	ISO 527
Stress at break	64	MPa	ISO 527
Strain at break	19	%	ISO 527
Flexural modulus	2220	MPa	ISO 178
Flexural strength	78	MPa	ISO 178
Izod impact strength, +23°C, 4mm	115	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2950	MPa	ASTM D 638
Tensile Strength at Yield	61	MPa	ASTM D 638
Tensile Strength at Break	59	MPa	ASTM D 638
Elongation at Yield	4.8	%	ASTM D 638
Elongation at Break	18	%	ASTM D 638
Flexural Modulus	2150	MPa	ASTM D 790
Izod Impact notched, 1/8 in	46	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1360	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	57	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	154	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	120	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	110	E-6/K	ASTM D 696
DTUL @ 66 psi	184	°C	ASTM D 648
DTUL @ 264 psi	57	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	1.2	%	Sim. to ISO 62
Density	1240	kg/m ³	ISO 1183
Water Absorption, 24hr	0.86	%	ASTM D 570
Density	1240	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	≤0.25	%	-
Melt temperature	275 - 290	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific