

Product Texts

LNP LUBRICOMP RAL23S compound is based on Nylon 6/6 resin containing 10% PTFE, 15% aramid fiber. Added features of this grade include: Heat Stabilized, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	1.25	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.45	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3800	MPa	ISO 527
Stress at break	85	MPa	ISO 527
Strain at break	6.3	%	ISO 527
Flexural modulus	3500	MPa	ISO 178
Flexural strength	107	MPa	ISO 178
Izod impact strength, +23°C, 4mm	37	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3680	MPa	ASTM D 638
Tensile Strength at Break	89	MPa	ASTM D 638
Elongation at Break	5.9	%	ASTM D 638
Flexural Modulus	3930	MPa	ASTM D 790
Flexural Strength	131	MPa	ASTM D 790
Izod Impact notched, 1/8 in	46	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	534	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	160	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	246	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	171	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1230	kg/m ³	ISO 1183
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