

Product Texts

LNP LUBRICOMP RFL36S compound is based on Nylon 6/6 resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant, Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	22	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	2.16	kg	-
ASTM Data			
Melt Flow Index, MFI	23	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10300	MPa	ISO 527
Stress at break	160	MPa	ISO 527
Strain at break	3.2	%	ISO 527
Flexural modulus	8900	MPa	ISO 178
Flexural strength	235	MPa	ISO 178
Charpy impact strength, +23°C	85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	16	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	70	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	10350	MPa	ASTM D 638
Tensile Strength at Break	150	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	8300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	100	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1040	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	248	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	260	°C	ISO 75-1/-2
Vicat softening temperature, B	253	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	250	°C	ISO 306
Coeff. of linear therm. expansion, parallel	28	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	83	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 264 psi	254	°C	ASTM D 648
Vicat Temperature	253	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1500	kg/m ³	ISO 1183
Density	1500	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	280 - 305	°C	-
Mold temperature	95 - 110	°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	-
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Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific