

Product Texts

LNP LUBRICOMP UFL36AS compound is based on Polyphthalamide (PPA) resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Heat Stabilized, Internally Lubricated, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	24	cm ³ /10min	ISO 1133
Temperature	340	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	28	g/10min	ASTM D 1238
Temperature	340	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11500	MPa	ISO 527
Stress at break	188	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus	10100	MPa	ISO 178
Charpy impact strength, +23°C	55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	12	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	50	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11200	MPa	ASTM D 638
Tensile Strength at Break	189	MPa	ASTM D 638
Elongation at Break	1.7	%	ASTM D 638
Flexural Modulus	9900	MPa	ASTM D 790
Izod Impact notched, 1/8 in	90	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	730	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	275	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	293	°C	ISO 75-1/-2
Vicat softening temperature, B	262	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	258	°C	ISO 306
Coeff. of linear therm. expansion, parallel	22	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	58	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	21.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	45	E-6/K	ASTM D 696
DTUL @ 264 psi	283	°C	ASTM D 648
Vicat Temperature	262	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1580	kg/m ³	ISO 1183
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1580	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	315 - 330	°C	-
Mold temperature	150 - 170	°C	-
Zone 1	310 - 320	°C	-

LNP™ LUBRICOMP™ Compound UFL36AS

(PA*+PTFE)-GF30

Saudi Basic Industries Corporation (SABIC)

Zone 2	315 - 325	°C	-
Zone 3	325 - 340	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive