

Product Texts

LNP LUBRICOMP UX06425 compound is based on Polyphthalamide (PPA) resin containing 10% glass fiber, 10% PTFE. Added features of this grade include: Wear Resistant, Hot Water Moldable and Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6420	MPa	ISO 527
Yield strain	1.4	%	ISO 527
Stress at break	85	MPa	ISO 527
Strain at break	1.4	%	ISO 527
Flexural modulus	5440	MPa	ISO 178
Flexural strength	126	MPa	ISO 178
Izod impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6610	MPa	ASTM D 638
Tensile Strength at Break	89	MPa	ASTM D 638
Elongation at Break	1.5	%	ASTM D 638
Flexural Modulus	5710	MPa	ASTM D 790
Izod Impact notched, 1/8 in	33	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	197	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	254	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	289	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	41	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	75.1	E-6/K	ASTM D 696
DTUL @ 66 psi	293	°C	ASTM D 648
DTUL @ 264 psi	260	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.5	%	Sim. to ISO 62
Water Absorption, 24hr	0.31	%	ASTM D 570
Density	1340	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.06	%	-
Melt temperature	330 - 345	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	320 - 325	°C	-
Zone 3	325 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.4	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive