LNP™ LUBRICOMP™ Compound UX06427

(PA*+PTFE)-CF30 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP UX06427 compound is based on Polyphthalamide (PPA) resin containing 30% carbon fiber, 15% PTFE. Added features of this grade include: Heat Stabilized, Hot Water Moldable, Wear Resistant, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.075**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.75**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**22800**	MPa	ISO 527
Stress at break	**227**	MPa	ISO 527
Strain at break	**1.3**	%	ISO 527
Flexural modulus	**19600**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**40**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**5**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**25200**	MPa	ASTM D 638
Tensile Strength at Break	**224**	MPa	ASTM D 638
Elongation at Break	**1.2**	%	ASTM D 638
Flexural Modulus	**17200**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**53**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**646**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**284**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**298**	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	**22**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**34**	E-6/K	ASTM D 696
DTUL @ 66 psi	**296**	°C	ASTM D 648
DTUL @ 264 psi	**284**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.6**	%	Sim. to ISO 62
Density	**1410**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.4**	%	ASTM D 570
Density	**1420**	kg/m³	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

Applications

Automotive

Special Characteristics
Increased electrical conductivity

Regional Availability
North America, Europe, Asia Pacific