

LNP™ LUBRICOMP™ Compound OCP36 - Americas

(PPS+PTFE)-CF30

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP OCP36 compound is based on Polyphenylene Sulfide (PPS) - linear resin containing 30% carbon fiber and 15% PTFE/silicone. Added features of this grade include: Wear Resistant, Bearing Grade, Electrically Conductive.

UL Yellow Card Link [E121562-101284446](https://www.ul.com/yellow-card/E121562-101284446)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.25	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	24900	MPa	ISO 527
Stress at break	166	MPa	ISO 527
Strain at break	0.9	%	ISO 527
Flexural modulus	22200	MPa	ISO 178
Flexural strength	254	MPa	ISO 178
Izod impact strength, +23°C, 4mm	26	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	26120	MPa	ASTM D 638
Tensile Strength at Break	165	MPa	ASTM D 638
Elongation at Break	0.9	%	ASTM D 638
Flexural Modulus	21400	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	485	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	266	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	278	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.9	mm	-
ASTM Data			
DTUL @ 66 psi	279	°C	ASTM D 648
DTUL @ 264 psi	260	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.02	%	Sim. to ISO 62
Density	1540	kg/m ³	ISO 1183
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1510	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	-
Melt temperature	315 - 320	°C	-
Mold temperature	140 - 165	°C	-
Zone 1	305 - 315	°C	-
Zone 2	320 - 330	°C	-
Zone 3	330 - 345	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America

Special Characteristics

Increased electrical conductivity