

Product Texts

LNP LUBRICOMP OCL36 compound is based on Polyphenylene Sulfide (PPS) - linear resin containing 30% carbon fiber and 15% PTFE. Added features of this grade include: Electrically Conductive, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
Density of melt	1390	kg/m ³	-
Thermal conductivity of melt	0.35	W/(m K)	-
Spec. heat capacity of melt	1910	J/(kg K)	-
Ejection temperature	202	°C	-
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.35	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	30700	MPa	ISO 527
Stress at break	166	MPa	ISO 527
Strain at break	1.1	%	ISO 527
Flexural modulus	21200	MPa	ISO 178
Flexural strength	262	MPa	ISO 178
Izod impact strength, +23°C, 4mm	31	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	21510	MPa	ASTM D 638
Tensile Strength at Break	168	MPa	ASTM D 638
Elongation at Break	1.4	%	ASTM D 638
Flexural Modulus	21110	MPa	ASTM D 790
Flexural Strength	259	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	443	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	263	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	3.34	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	95.4	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 264 psi	267	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.03	%	Sim. to ISO 62
Density	1520	kg/m ³	ISO 1183
Density	1520	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