LNP™ LUBRICOMP™ Compound OFL36XXC

(PPS+PTFE)-GF30 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP OFL36XXC compound is based on Polyphenylene Sulfide (PPS) - linear resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link E45587-101344460

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.4**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**0.15**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.7**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**12000**	MPa	ISO 527
Stress at break	**121**	MPa	ISO 527
Strain at break	**1.3**	%	ISO 527
Flexural modulus	**11000**	MPa	ISO 178
Flexural strength	**180**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**24**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**5**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**12800**	MPa	ASTM D 638
Tensile Strength at Break	**124**	MPa	ASTM D 638
Elongation at Break	**1.3**	%	ASTM D 638
Flexural Modulus	**11600**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**60**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**416**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**257**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**278**	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	**25**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**34**	E-6/K	ASTM D 696
DTUL @ 66 psi	**278**	°C	ASTM D 648
DTUL @ 264 psi	**264**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.01**	%	Sim. to ISO 62
Density	**1700**	kg/m³	ISO 1183
Density	**1690**	kg/m³	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, Europe, Asia Pacific