LNP™ LUBRICOMP™ Compound LX91475 - Americas

PEEK | Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP LX91475 compound is based on Polyetheretherketone (PEEK) resin containing proprietary fillers. Added features of this grade include: Easy Molding, High Temperature Bearing Grade, Wear Resistant.

UL Yellow Card Link E121562-101284445

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.5**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.8**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**11800**	MPa	ISO 527
Stress at break	**160**	MPa	ISO 527
Strain at break	**2.1**	%	ISO 527
Flexural modulus	**10300**	MPa	ISO 178
Flexural strength	**229**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**30**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**5**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**12360**	MPa	ASTM D 638
Tensile Strength at Yield	**161**	MPa	ASTM D 638
Tensile Strength at Break	**159**	MPa	ASTM D 638
Elongation at Break	**2.1**	%	ASTM D 638
Flexural Modulus	**10300**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**58**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**480**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**335**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**335**	°C	ISO 75-1/-2
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.7**	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	**18**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**41.9**	E-6/K	ASTM D 696
DTUL @ 66 psi	**336**	°C	ASTM D 648
DTUL @ 264 psi	**322**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.08**	%	Sim. to ISO 62
Water Absorption, 24hr	**0.05**	%	ASTM D 570
Density	**1430**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**150**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Mold temperature	**175 - 190**	°C	-
Zone 1	**370 - 380**	°C	-
Zone 2	**380 - 400**	°C	-
Zone 3	**380 - 400**	°C	-
Screw speed	**60 - 100**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
North America