

Product Texts

LNP THERMOTUF OF006IXQ compound is based on linear Polyphenylene Sulfide (PPS) resin containing 30% glass fiber. Added features include: Impact Modified, High Heat Resistance and Chemical Resistance.

UL Yellow Card [E207780-104555950](https://www.ul.com/yellow-card/E207780-104555950)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	14	cm ³ /10min	ISO 1133
Temperature	315	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	21	g/10min	ASTM D 1238
Temperature	315	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	10100	MPa	ISO 527
Stress at break	150	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus, 23°C	9300	MPa	ISO 178
Flexural strength	220	MPa	ISO 178
Charpy impact strength, +23°C	55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	15	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	55	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	15	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	10000	MPa	ASTM D 638
Tensile Strength at Break	150	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	9400	MPa	ASTM D 790
Flexural Strength	220	MPa	ASTM D 790
Izod Impact notched, 1/8 in	156	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	820	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	260	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	278	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	13	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	52	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-1	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-
ASTM Data			
Coefficient of Thermal Expansion, MD	13	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	53	E-6/K	ASTM D 696
DTUL @ 66 psi	275	°C	ASTM D 648
DTUL @ 264 psi	260	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.02	%	Sim. to ISO 62
Density	1510	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 140	°C	-
Pre-drying - Time	3 - 5	h	-
Melt temperature	310 - 330	°C	-
Mold temperature	130 - 160	°C	-
Feed temperature	50 - 70	°C	-
Zone 1	290 - 320	°C	-
Zone 2	310 - 330	°C	-
Zone 3	310 - 330	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America