

Product Texts

LNP KONDUIT OX11315 compound is based on Polyphenylene Sulfide (PPS) resin containing minerals. Added features of this grade include: Thermally Conductive, Electrically Insulative and Non-Brominated, Non-Chlorinated Flame Retardant.

UL Yellow Card Link [E207780-101069096](https://www.ul.com/yellow-card/E207780-101069096)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.34	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.44	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	18400	MPa	ISO 527
Stress at break	54	MPa	ISO 527
Strain at break	0.3	%	ISO 527
Flexural modulus	21400	MPa	ISO 178
Flexural strength	84	MPa	ISO 178
Izod impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	1	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	30100	MPa	ASTM D 638
Tensile Strength at Break	41	MPa	ASTM D 638
Elongation at Break	0.2	%	ASTM D 638
Flexural Modulus	26500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	16	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	54	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	238	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	275	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	2.5	mm	-
ASTM Data			
DTUL @ 66 psi	275	°C	ASTM D 648
DTUL @ 264 psi	242	°C	ASTM D 648
Specific Heat	1260	J/(kg K)	ASTM C 351

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	400	-	IEC 60112
ASTM Data			
Surface Resistivity	>1E15	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.01	%	Sim. to ISO 62
Water Absorption, 24hr	0.01	%	ASTM D 570
Density	1780	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	320 - 350	°C	-
Mold temperature	110 - 150	°C	-
Zone 1	315 - 345	°C	-

Zone 2	315 - 345	°C	-
Zone 3	315 - 345	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant, Thermally Conductive

Regional Availability

North America, Europe, Asia Pacific