LNP™ KONDUIT™ Compound OX10324

PPS-GF | Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP KONDUIT OX10324 compound is based on Polyphenylene Sulfide (PPS) resin containing glass fiber. Added features of this grade include: Thermally Conductive and Non-Brominated, Non-Chlorinated Flame Retardant.

UL Yellow Card Link E207780-100960980

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.1**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.2**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**14000**	MPa	ISO 527
Stress at break	**53**	MPa	ISO 527
Strain at break	**0.6**	%	ISO 527
Flexural modulus	**13500**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**7**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**3**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**13500**	MPa	ASTM D 638
Tensile Strength at Break	**49**	MPa	ASTM D 638
Elongation at Break	**0.6**	%	ASTM D 638
Flexural Modulus	**15600**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**24**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**70**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**231**	°C	ISO 75-1/-2
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.2**	mm	-
Glow Wire Ignition Temperature (GWIT)	**850**	°C	IEC 60695-2-13
GWIT - thickness tested (1)	**1**	mm	-
ASTM Data			
DTUL @ 66 psi	**275**	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**25000**	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	**1750**	kg/m³	ISO 1183

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