

**LNP™ KONDUIT™ Compound OX11314 - Europe**

PPS-(GF+MF)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP KONDUIT OX11314 compound is based on Polyphenylene Sulfide (PPS) resin containing mineral and glass fiber. Added features of this grade include: Thermally Conductive, Electrically Insulative and Non-Brominated, Non-Chlorinated Flame Retardant.

**Processing/Physical Characteristics**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	15000	MPa	ISO 527
Stress at break	50	MPa	ISO 527
Strain at break	0.5	%	ISO 527
Flexural modulus	15500	MPa	ISO 178
Izod impact strength, +23°C, 4mm	6	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m <sup>2</sup>	ISO 180/1A

**Thermal properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	211	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	261	°C	ISO 75-1/-2
Vicat softening temperature, 120°C/h 50N	254	°C	ISO 306

**Electrical properties**

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	1E15	Ohm	ASTM D 257

**Other properties**

	Value	Unit	Test Standard
Density	1910	kg/m <sup>3</sup>	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**

Europe