

LNP™ KONDUIT™ OX11315 compound

Polyphenylene Sulfide

SABIC Innovative Plastics Asia Pacific

Message:

LNP* KONDUIT* OX11315 is a thermally conductive, electrically insulative, mineral filled PPS Flame Retardant compound.

Also known as: LNP* KONDUIT* Compound OX11315

Product reorder name: OX11315

General Information			
Filler / Reinforcement	Mineral filler		
Features	Heat conduction		
	Insulation		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.78	g/cm ³	ASTM D792
--	1.76	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.34	%	ASTM D955
Transverse flow: 24 hours	0.44	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.010	%	ASTM D570
Equilibrium, 23°C, 50% RH	< 0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	30100	MPa	ASTM D638
--	18400	MPa	ISO 527-2/1
Tensile Strength			
Fracture ²	41.0	MPa	ASTM D638
Fracture	54.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	0.20	%	ASTM D638
Fracture	0.30	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	26500	MPa	ASTM D790
-- ⁵	21400	MPa	ISO 178
Flexural Stress			
--	84.0	MPa	ISO 178
Fracture, 50.0mm span ⁶	82.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	16	J/m	ASTM D256
23°C ⁷	1.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	54	J/m	ASTM D4812
23°C ⁸	3.9	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.14	J	ASTM D3763
--	1.14	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	275	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁹	275	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	242	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁰	238	°C	ISO 75-2/Af
Specific Heat	1260	J/kg/°C	ASTM C351
Thermal Conductivity			ASTM E1461
-- ¹¹	3.5	W/m/K	ASTM E1461
-- ¹²	15	W/m/K	ASTM E1461
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.4E+15	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.00 mm	V-0		UL 94
2.50 mm	5VA		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Shot Size	50 - 75	%	
Rear Temperature	316 - 343	°C	
Middle Temperature	316 - 343	°C	
Front Temperature	316 - 343	°C	
Processing (Melt) Temp	321 - 349	°C	
Mold Temperature	110 - 150	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	5.0 mm/min		

2.	Type 1, 5.0 mm/min
3.	Type 1, 5.0 mm/min
4.	1.3 mm/min
5.	2.0 mm/min
6.	1.3 mm/min
7.	80*10*4
8.	80*10*4
9.	80*10*4 mm
10.	80*10*4 mm
11.	through-plane, 10*10*3mm sample
12.	in-plane, ø25*0.4mm disc

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