

LNP™ KONDUIT™ PX11311 compound

Polyamide 6

SABIC Innovative Plastics Asia Pacific

Message:

Thermally conductive mineral and glass fiber filled PA6 Eco-FR compound

Also known as: LNP* KONDUIT* Compound PX11311

Product reorder name: PX11311

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
	Mineral filler		
Features	Heat conduction		
	Flame retardancy		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.76	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12500	MPa	ISO 527-2/1
Tensile Stress (Break)	102	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	%	ISO 527-2/5
Flexural Modulus ¹	11000	MPa	ISO 178
Flexural Stress	164	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	22	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	185	°C	ISO 75-2/Af
Vicat Softening Temperature	208	°C	ISO 306/B120
Linear thermal expansion coefficient			
Flow: -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831
Flow: -30 to 80°C	3.5E-5	cm/cm/°C	ISO 11359-2
Flow: 23 to 80°C	3.7E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	4.8E-5	cm/cm/°C	ASTM E831
Horizontal: -30 to 80°C	6.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	7.3E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity			ISO 22007-2
-- ⁵	1.1	W/m/K	ISO 22007-2

-- 6	1.3	W/m/K	ISO 22007-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Comparative Tracking Index (CTI)	PLC 0		UL 746
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.00 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	
Rear Temperature	260 - 275	°C	
Middle Temperature	270 - 290	°C	
Front Temperature	270 - 290	°C	
Processing (Melt) Temp	270 - 295	°C	
Mold Temperature	85.0 - 100	°C	
Back Pressure	0.200 - 0.300	MPa	
Screw Speed	20 - 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	through-plane, ø80*3mm discs		
6.	in-plane, ø80*3mm discs		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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