

LNP™ KONDUIT™ PX09322 compound

Polyamide 6

SABIC Innovative Plastics Asia Pacific

Message:

White colored thermally conductive mineral filled PA6 FR compound

General Information			
Filler / Reinforcement	Mineral		
Features	Flame Retardant		
	Thermally Conductive		
Appearance	White		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow	0.58	%	
Across Flow	0.53	%	
Water Absorption (24 hr, 50% RH)	0.060	%	ASTM D570
UV Weathering - Start F1 from 1mm onword	PASSES		UL 746C
Water Immersion - Start F1 from 1mm onword	PASSES		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	10400	MPa	ASTM D638
Tensile Strength ² (Break)	51.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	0.80	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	11000	MPa	ASTM D790
Flexural Strength ⁵			ASTM D790
Yield, 50.0 mm Span	80.0	MPa	
Break, 50.0 mm Span	81.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	22	J/m	ASTM D256
Unnotched Izod Impact (23°C)	130	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	210	°C	
1.8 MPa, Unannealed, 6.40 mm	182	°C	
CLTE			ASTM E831
Flow : -40 to 40°C	2.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.7E-5	cm/cm/°C	

Thermal Conductivity			
-- 6	1.5	W/m/K	ASTM E1461
-- 7	6.0	W/m/K	ASTM E1461
-- 8	0.86	W/m/K	ISO 22007-2
-- 9	2.7	W/m/K	ISO 22007-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.1E+14	ohms	ASTM D257
Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.20 mm)	V-0		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	230 to 270	°C	
Middle Temperature	240 to 280	°C	
Front Temperature	250 to 280	°C	
Nozzle Temperature	250 to 280	°C	
Processing (Melt) Temp	250 to 280	°C	
Mold Temperature	80.0 to 100	°C	
Back Pressure	0.300 to 0.900	MPa	
Screw Speed	30 to 150	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		
6.	through-plane, 10*10*3mm sample		
7.	in-plane, ø25*0.4mm disc		
8.	through-plane, ø80*3mm discs		
9.	in-plane, ø80*3mm discs		

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