LNP™ KONDUIT™ Compound PX09322
Asia Pacific: COMMERCIAL

White colored thermally conductive mineral filled PA6 FR compound

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	520	kgf/cm²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	106200	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	810	kgf/cm²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	820	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	111800	kgf/cm²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	13	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	210	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	182	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.37E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.67E-05	1/°C	ASTM E 831
Thermal Conductivity through-plane, 10*10*3mm sample	1.5	W/m-K	ASTM E 1461-07
Thermal Conductivity in-plane, ø25*0.4mm disc	6	W/m-K	ASTM E 1461-07
Thermal Conductivity through-plane, ø80*3mm discs	0.86	W/m-K	ISO 22007-2
Thermal Conductivity in-plane, ø80*3mm discs	2.68	W/m-K	ISO 22007-2
PHYSICAL			
Density	1.52	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.06	%	ASTM D 570
Water Immersion, Start F1 from 1mm onword	PASSES	-	UL 746C
UV Weathering, Start F1 from 1mm onword	PASSES	-	UL 746C
Mold Shrinkage, flow (5)	0.58	%	SABIC Method

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PHYSICAL			
Mold Shrinkage, xflow (5)	0.53	%	SABIC Method
ELECTRICAL			
Surface Resistivity	8.1E+14	Ohm	ASTM D 257
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	1.2	mm	UL 94
Glow Wire Flammability Index 960°C, passes at	1	mm	IEC 60695-2-12

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80 - 90	°C
Drying Time	3 - 4	hrs
Maximum Moisture Content	0.01	%
Melt Temperature	250 - 280	°C
Nozzle Temperature	250 - 280	°C
Front - Zone 3 Temperature	250 - 280	°C
Middle - Zone 2 Temperature	240 - 280	°C
Rear - Zone 1 Temperature	230 - 270	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.3 - 0.9	MPa
Screw Speed	30 - 150	rpm