

## LNP\* Konduit\* Compound PX08321

Asia Pacific: COMMERCIAL

Also known as: PX08321

Product Reorder Name: PX08321

Thermally conductive mineral filled PA6 compound, with through-plane and in-plane thermal conductivity of 2.6 W/(m\*K) and 10 W/(m\*K) respectively, conforming to ASTM E 1461 test standard.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, brk, Type I, 5 mm/min	70	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	13820	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	104	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	14200	MPa	ASTM D 790
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	157	J/m	ASTM D 4812
Izod Impact, notched, 23°C	24	J/m	ASTM D 256
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	192	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.63E+01	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.82E+01	1/°C	ASTM E 831
<b>PHYSICAL</b>			
Density	1.63	g/cm <sup>3</sup>	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.46	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.39	%	ASTM D 955
<b>ELECTRICAL</b>			
Hot Wire Ignition {PLC}	2	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A
Comparative Tracking Index	600	V	IEC 60112
<b>FLAME CHARACTERISTICS</b>			
UL Recognized, 94HB Flame Class Rating (3)	1	mm	UL 94
Glow Wire Ignitability Temperature, 1.0 mm	825	°C	IEC 60695-2-13

Source GMD, last updated:2009/04/24

### Processing

Parameter	Value	Unit
<b>Injection Molding</b>		
Drying Temperature	80 - 90	°C
Drying Time	3 - 4	hrs
Melt Temperature	270 - 300	°C
Nozzle Temperature	270 - 300	°C
Front - Zone 3 Temperature	270 - 300	°C
Middle - Zone 2 Temperature	270 - 300	°C
Rear - Zone 1 Temperature	260 - 290	°C
Mold Temperature	80 - 100	°C

Back Pressure	3 - 9	MPa
Screw Speed	30 - 150	rpm

Source GMD, last updated:2009/04/24

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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