



## LNP™ KONDUIT™ Compound PX11422

### Americas: LIMITED USE

Also known as: LNP™ KONDUIT™ Compound EXKD0012

Product reorder name: PX11422

LNP KONDUIT is a compound based on Nylon 6 resin containing thermally conductive fillers. Added feature of this material is Electrically Conductive.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, brk, Type I, 0.2 in/min	7600	psi	ASTM D 638
Tensile Strain, brk, Type I, 0.2 in/min	1	%	ASTM D 638
Tensile Modulus, 0.2 in/min	1405000	psi	ASTM D 638
Flexural Stress, brk, 0.05 in/min, 2 in span	11800	psi	ASTM D 790
Flexural Modulus	1335000	psi	ASTM D 790
<b>IMPACT</b>			
Izod Impact, unnotched, 73°F	2.3	ft-lb/in	ASTM D 4812
Izod Impact, notched, 73°F	0.4	ft-lb/in	ASTM D 256
<b>THERMAL</b>			
HDT, 264 psi, 0.125 in, unannealed	345	°F	ASTM D 648
Thermal Conductivity @ 77 °F	2.2	W/m-°C	ASTM C 177
<b>PHYSICAL</b>			
Specific Gravity	1.48	-	ASTM D 792
<b>ELECTRICAL</b>			
Surface Resistivity	1.E+04	Ohm	ASTM D 257



(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.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
<b>Injection Molding</b>		
Drying Temperature	180	°F
Drying Time	4	hrs
Front - Zone 3 Temperature	530 - 550	°F
Middle - Zone 2 Temperature	530 - 550	°F
Rear - Zone 1 Temperature	510 - 530	°F
Mold Temperature	230 - 270	°F
Back Pressure	149 - 249	psi
Screw Speed	50 - 100	rpm



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