



LNP™ KONDUIT™ Compound PX11311

Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ KONDUIT™ Compound PX11311

Product reorder name: PX11311

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break, 5 mm/min	102	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	12500	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	164	MPa	ISO 178
Flexural Modulus, 2 mm/min	11000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	22	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
CTE, -40°C to 40°C, flow	3.08E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.77E-05	1/°C	ASTM E 831
CTE, -30°C to 80°C, flow	3.46E-05	1/°C	ISO 11359-2
CTE, -30°C to 80°C, xflow	6.04E-05	1/°C	ISO 11359-2
CTE, 23°C to 80°C, flow	3.72E-05	1/°C	ISO 11359-2
CTE, 23°C to 80°C, xflow	7.34E-05	1/°C	ISO 11359-2
Thermal Conductivity through-plane, ø80*3mm discs	1.1	W/m-K	ISO 22007-2
Thermal Conductivity in-plane, ø80*3mm discs	1.3	W/m-K	ISO 22007-2
Vicat Softening Temp, Rate B/120	208	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	185	°C	ISO 75/Af
PHYSICAL			
Density	1.76	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+16	Ohm	ASTM D 257
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
Comparative Tracking Index	600	V	IEC 60112



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FLAME CHARACTERISTICS UL Recognized, 94V-0 Flame Class Rating (3)	1	mm	UL 94



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	270 - 295	°C
Front - Zone 3 Temperature	270 - 290	°C
Middle - Zone 2 Temperature	270 - 290	°C
Rear - Zone 1 Temperature	260 - 275	°C
Mold Temperature	85 - 100	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	20 - 60	rpm