

Product Texts

LNP KONDUIT PX10323H compound is based on Nylon 6 resin containing glass fiber. Added features of this grade include: Thermally Conductive and Healthcare.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.22	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	14000	MPa	ISO 527
Stress at break	73	MPa	ISO 527
Strain at break	0.8	%	ISO 527
Flexural modulus	14300	MPa	ISO 178
Izod impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	13700	MPa	ASTM D 638
Tensile Strength at Break	70	MPa	ASTM D 638
Elongation at Break	0.9	%	ASTM D 638
Flexural Modulus	14200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	30	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	73	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	201	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	217	°C	ISO 75-1/-2
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	1	mm	-
GWFI - thickness tested (3)	1.6	mm	-
Glow Wire Ignition Temperature (GWIT)	825	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1	mm	-

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1.05E6	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.04	%	Sim. to ISO 62
Density	1610	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.25	%	-
Melt temperature	270 - 295	°C	-
Mold temperature	85 - 100	°C	-
Zone 1	260 - 275	°C	-
Zone 2	270 - 290	°C	-
Zone 3	270 - 290	°C	-
Screw speed	20 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

Asia Pacific

Special Characteristics

Thermally Conductive