TDS Rev 1.0

Technical Data Sheet: CX21 COEX-NYLEX UNFILLED SERIES 3D PRINTING FILAMENT

BASE RESIN: DuPont Zytel

Physical Properties	Standard	Unit	Typical Value
Specific Gravity - Density	ISO 1183	g/cm^3	1.09
Melting Temperature, 10°C/min	ISO 11357-1/-3	°C	198

Mechanical Properties	Standard	Unit	Typical Value
Tensile Stress @ Break	ISO 527 Type 1BA	MPa	40
Tensile Modulus	ISO 527 Type 1A	MPa	23
Nominal Strain @ Break	ISO 527 Type 1BA	%	15
Tensile Stress @ 50%	ISO 527 Type 1BA	MPa	55
Notched Izod Impact	ISO 180/1A	kJ/m²	3

Thermal Properties	Standard	Unit	Typical Value
Drying Temperature @ 12 hours		°C	85

SPECIFICATIONS Filament Size:	1.75mm	0.0689 in	2.85mm	0.1122 in
MIN Diameter:	1.72mm	0.0677 in	2.79mm	0.1098 in
MAX Diameter:	1.78mm	0.0701 in	2.91mm	0.1146 in
Tolerance Standard Dev. Ovality	+/- .03mm	+/- 0.0012 in	+/- .06mm	+/- 0.0024 in

ADVANTAGES
Heat Resistant, Chemical Resistant, Strong, Durable
Lightweight and incredibly strong material to make durable, functional parts.

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/-45°
Extrusion Temp: 245 - 295°C
Bed Temp: 80-110°C
Specimen Orientation: XY Flat and Vertical
Printing Speed 60mm/sec..

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