TDS Rev 2.0

Technical Data Sheet: CX16 ABS FLAME RETARDANT 3D PRINTING FILAMENT

BASE RESIN: LG Chem Ltd. ABS AF366A

Physical Properties	Standard	Unit	Typical Value
Specific Gravity - Density	ASTM D792	g/cm³	1.16
Melt Density @220°C, 10KG	ASTM D1238	g/10 min	54
UL Flammability Class. @1.0mm	UL 94	N/A	HB

Mechanical Properties	Standard	Unit	Typical Value
Tensile Yield Strength	ASTM D638	MPa	40.2
Tensile Modulus	ASTM D638	MPa	2059
Tensile Elongation	ASTM D638	%	5
Flexural Stress	ISO 178	MPa	63
Notched Izod Impact	ASTM D256	J/m	196
Shrinkage Rate < 1%	ASTM D955	mm/mm	0.40 - 0.70%

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	°C	95
Heat Distortion Temp @ 0.45MPa	ASTM D648	°C	85
Decomposition Temperature	ASTM 3418	°C	N/A

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

CERTIFICATIONS
UL / C-UL Certified Yellow Card E67171

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/-45°
Extrusion Temp: 240°C
Bed Temp: 90°C
Specimen Orientation: XY Flat
Unannealed

2/21/20

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