



TDS Rev 2.0

Technical Data Sheet: CX09 ABS PRIME SERIES 3D PRINTING FILAMENT**BASE RESIN:** LG Chem Ltd. ABS High Impact

Physical Properties	Standard	Unit	Typical Value
Specific Gravity - Density	ASTM D792	g/cm ³	1.05
Melt Density @220°C, 10KG	ASTM D1238	g/10 min	22
UL Flammability Class. @1.14mm	UL 94	N/A	94HB

Mechanical Properties	Standard	Unit	Typical Value
Tensile Yield Strength	ASTM D638	MPa	49
Tensile Modulus	ASTM D638	MPa	2350
Tensile Elongation	ASTM D638	%	30
Flexural Stress	ISO 178	MPa	78
Notched Izod Impact	ASTM D256	J/m	225
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.	+/- .03mm	+/- 0.0012 in	+/- .06mm	+/- 0.0024 in
Ovality				

CERTIFICATIONS	
ROHS compliant to (2011/65/EU) Annex II, recasting 2002/95/EC	
NSF/ANSI 51 Food Equipment Materials	
UL / C-UL Certified Yellow Card E302314	

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

www.coex3d.com

Disclaimer: The technical data contained on this data sheet is furnished without charge or obligation and accepted at the recipient's sole risk. This data should not be used to establish specifications limits or used alone as the basis of design. The data provided is not intended to substitute any testing that may be required to determine fitness for any specific use.