

Technical Data Sheet



Product name: Crystal Flex™

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Version: v2

Crystal Flex™ is an “easy to use” high-end SBC (Styrene Butadiene Block Copolymer) type of 3D printer filament. Crystal Flex™ is a strong, flexible and crystal clear filament, as it will let 92% of visible light pass through its fibre. Because of its resilience and shore hardness of D63, Crystal Flex™ can be bend up to 230% without causing white stress marks after bending.

An outstanding interlayer bonding completed with very limited water absorption and by that virtually no warping, make Crystal Flex™ a unique and wonderful material to print with.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.01 g/cc	ASTM D792	-
Melt flow rate	7.5 g/10min	ASTM D1238	220° C/5Kg
Water absorption	-	-	-
Moisture absorption	0.09%	ASTM D570	24 h
Mechanical			
Impact strength	-	-	-
Tensile strength	26 Mpa	ASTM D638	@ Yield 2.0 in/min
Tensile modulus	-	-	-
Elongation at break	230%	ASTM D638	@ Break 2.0 in/min
Flexural strength	37 Mpa	ASTM D790	0.5in/min
Flexural modulus	1795 Mpa	ASTM D790	0.5in/min
Hardness	63D	ASTM D2240	Shore D Hardness
Thermal			
Print temperature	± 230 - 260° C	-	-
Melting temperature	-	-	-
Viscat softening temp.	± 82° C	ASTM D1525	-
Optical			
Haze	-	-	-
Transmittance	92%	ASTM D1003	-
Gloss	162%	ASTM D2457	Gardner Gloss, 60°

Product details, certifications and compliance	Diameter	Tolerance	Roundness
HS Code	1.75mm	± 0.05mm	≥ 95%
REACH compliant	2.85mm	± 0.10mm	≥ 95%
RoHS certified			
FDA compliant			

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