Technical Data Sheet

Product name: Crystal Flex™

Version: v3

Crystal Flex is a high-performance and easy to use Styrene-Butadiene Copolymer based 3D printer filament, which combines strength, resilience, semi-flexibility and transparency with printability.
Crystal Flex filament is as clear as PolyCarbonate and has an extremely high surface gloss and by that can truly be called a bright filament. All these properties combined make Crystal Flex a diverse and wonderful filament to print with and which can be applied for a wide range of applications.

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 termperature	-	-	-
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	
HS Code	39169090
REACH compliant	Yes
RoHS certified	Yes

Diameter	Tolerance	Roundness
1.75mm	± 0.05mm	≥ 95%
2.85mm	± 0.10mm	≥ 95%

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