

Technical Data Sheet



Product name: StoneFil™

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Version: v1

StoneFil™ is a PLA based filament which is based on our modified and easy-to-print EasyFil™ PLA compound and is gravimetrically filled with 50% of powdered stone.

This high “stone filling” has resulted in a 3D printer filament with remarkable aesthetic features and a higher material density up to 37% higher than “normal” PLA. StoneFil™ is an easy-to-print filament and printed objects have an extremely matte stone-like finish with unique natural gradient linings resulting in a unique chromatic spectrum per print. Every StoneFil™ printed object will have its own identity and unique linings.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.7 g/cc	ISO 1183	-
Melt flow rate	94 g/10min	ISO 1133	210° C/2.16Kg
Water absorption	-	-	-
Moisture absorption	-	-	-
Mechanical			
Impact strength	2.9 KJ/m ²	ISO 179	Charpy Notched @23° C (73° F)
Tensile strength	38.0 Mpa	ISO 527	@ Yield 50mm/min (2 inch/min)
Tensile modulus	4760 Mpa	ISO 527	-
Elongation at break	33%	ISO 527	@ Break 50mm/min (2 inch/min)
Flexural strength	-	-	-
Flexural modulus	-	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 190 - 240° C	-	-
Melting temperature	± 77 - 153° C	ISO 11357	-
Viscat softening temp.	± 57° C	ISO 306	VST/A/50 (50° C/h, 10N)
Optical			
Haze	-	-	-
Transmittance	-	-	-
Gloss	-	-	-

Product details, certifications and compliance		Diameter	Tolerance	Roundness
HS Code	39169090	1.75mm	± 0.05mm	≥ 95%
REACH compliant	Yes	2.85mm	± 0.10mm	≥ 95%
RoHS certified	Yes			
FDA compliant	Yes			

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