

Technical Data Sheet



Product name: StoneFil™

Version: v3

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 significant higher material density up to 37% higher than “normal” PLA. StoneFil is an easy-to-print 3D printer filament and printed objects have an extremely matte stone-like finish with unique natural gradient colour linings resulting in an exceptional chromatic spectrum per print. Every StoneFil printed object will have its own identity and unique gradient colour shading.

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			

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