Technical Data Sheet

Product name: ReForm™ - rTitan

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ReForm is a sustainable initiative within Formfutura to efficiently manage residual extrusion waste streams and re-use them into high-end upcycled filaments. The ideology behind ReForm is to a make 3D printing more sustainable – without having to make compromises on material properties – and yet keep it affordable.
ReForm rTitan is based on exactly the same unique formulation as our TitanX filament range, but is made out of residual extrusion waste streams which are re-compounded and homogenized into a high-end and FDM/FFF-optimized upcycled TitanX-based filament with significantly less environmental impact.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.10 g/cc	ISO 1183	-
Melt flow rate	41 g/10min	ISO 1133	260° C/5Kg
Water absorption	-	-	-
Moisture absorption	-	-	-
Mechanical			
Impact strength	58 KJ/m²	ISO 179	Charpy Notched @23° C (73° F)
Tensile strength	43.6 Mpa	ISO 527	@Yield 50mm/min (2 inch/min)
Tensile modulus	2030 Mpa	ISO 527	1mm/min
Elongation at break	34%	ISO 527	@ Break 50mm/min (2 inch/min)
Flexural strength	-	-	-
Flexural modulus	-	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 240 - 260° C	-	-
Melting termperature	± 235 ± 10° C	ISO 294	-
Viscat softening temp.	± 97° C	ISO 306	VST/A/50 (50° C/h, 10N)
Optical			
Haze	-	-	-
Transmittance	-	-	-
Gloss	-	-	-

Product details, certifications and compliance	
HS Code	39169090
REACH compliant	Yes
RoHS certified	Yes
FDA compliant	Yes

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

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