

Technical Data Sheet



Product name: TitanX™

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Version: v1

TitanX™ is a revolutionary new high-performance and FDM-optimized engineering ABS (Acrylonitrile Butadiene Styrene) type of 3D printer filament with strongly improved mechanical properties and by its FDM-optimization – zero warping, superb first layer adhesion to glass/kapton/pet/adhesives, perfect interlayer adhesion, thermal stability and filament flowing behavior – it is a very easy to print material.

TitanX™ can be printed directly on a heated glass print bed and by its high impact strength and FDM-optimization it is a perfect material for 3D printing large scale engineering objects.

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/m ²	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 temperature	± 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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