Technical Data Sheet

Product name: TitanX™

Version: v3

TitanX is an industrial-grade, high-performance and FFF/FDM-optimized ABS based engineering filament. TitanX is the evolution of ABS into a warp-free filament with unsurpassed mechanical properties and is extremely suitable for 3D printing large scale and high precision engineering objects. TitanX is truly FFF/FDM-optimized as it has zero warping, a perfect interlayer adhesion and can be printed directly on a heated glass plate without any adhesives or tapes to be used.

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

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

Formfutura BV
Groenestraat 215
6531 HH Nijmegen
The Netherlands

CoC: 69099502
VAT: NL857733709B01
EORI: NL857733709

Tel: +31 (0)85 002 0881
Email: info@formfutura.com
Website: www.formfutura.com