



# FICHE TECHNIQUE FILAMENT | ABS ULTRA

V 1.0

**VOLUMIC**  
IMPRIMANTES 3D

**ABS ULTRA is an industrial-grade, high-performance and FFF/FDM-optimized ABS based engineering filament. ABS ULTRA 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. ABS ULTRA 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.**

PROPERTY	VALUE	UNIT	TEST METHOD
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 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		
Diameter	1.75 2.85	mm	
Tolerance	±0.05 ±0.10	mm	
Roundness	≥95	%	

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