

Technical Data Sheet



Product name: ABSpro™

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Version: v2

ABSpro™ is a professional high-performance and mechanical-focussed modified ABS (Acrylonitrile Butadiene Styrene) type of 3D printer filament – which has been reinforced with a very accurate mixture of Styrene Maleic Anhydride and PolyCarbonate – resulting in an incredibly strong and even more impact resistant filament.

With ABSpro™ you can 3D print extremely strong and high gloss objects with a remarkable fine detail. ABSpro™ is extremely suitable for printing mechanical parts with exceptional endurance properties.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.02 g/cc	ISO 1183	-
Melt flow rate	5.5 cm ³ /10min	ISO 1133	220° C/10Kg
Water absorption	1.02%	ISO 62	Saturated at 23° C
Moisture absorption	0.19%	ISO62	Equilibrium 23° C/50% RH
Mechanical			
Impact strength	39 KJ/m ²	ISO 180/A	Izod Notched @23° C (73° F)
Tensile strength	39.9 Mpa	ISO 527	Stress @ Yield 23° C
Tensile modulus	2100 Mpa	ISO 527	-
Elongation at break	11%	ISO 527	Nominal Strain at Break, 23° C
Flexural strength	± 72.7 Mpa	-	-
Flexural modulus	± 2370 Mpa	-	-
Hardness	77 Mpa	ISO 2039-1	Ball Indentation Hardness
Thermal			
Print temperature	± 245 - 275° C	-	-
Melting temperature	± 252 ± 10° C	ISO 294	-
Viscat softening temp.	± 108° 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			
FDA compliant	Yes			

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