

TECHNICAL DATA SHEET



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Product specifications

ABSpro is a PC-ABS filament that is perfect for 3D printing mechanical parts. It is durable, strong and impact resistant and 3D prints with a high dimensional accuracy and perfect interlayer adhesion.

Flammability rating: UL94 HB

Important key features

Extremely strong and impact resistant
Extremely high printing precision
Good chemical resistance

Suitable applications

Automotive
Aviation & Heavy industry
Tools & Electronics

Recommended pretreatment

Drying

Recommended
50 - 60 °C
12 h

Print with

Enclosure	Yes
Dry box	No

Recommended print settings regular speed

Print speed	25 - 100 mm/s
Nozzle temperature	230 - 255 °C
Bed temperature	100 - 110 °C
Fan speed	0 - 50 %

Recommended print settings high speed

ABSpro is high speed compatible. Our recommended settings will be added once available. Please take note that the nozzle temperature and fan speed need to be raised when printing at high speed.

Material properties

Typical value	Unit of Measure	Test method	Test condition
Density			
Specific gravity	1,05	g/cm3	ASTM D792
Melt flow rate	21	g/10min	ASTM D1238 220°C/10kg

Mechanical properties

Impact strenght	33	kgcm/cm	ASTM D256	Izod notched 23°C
Tensile strenght at yield	460	kg/cm2	ASTM D638	
Tensile strenght at break				
Tensile modulus				
Elongation at yield				
Elongation at break	10	%	ASTM D638	
Flexural strenght	740	kg/cm2	ASTM D790	
Flexural modulus	25000	kg/cm2	ASTM D790	
Rockwell hardness	108 R scale			

Thermal properties

Melting temperature				
Heat deflection temperature	85	°C	ASTM D648	HDT A
Vicat softening temperature	93	°C	ASTM D1525	
Glass transition temperature				

Product export information

HS code

39169090

Description

Monofilament for 3D printing

Origin

European Union

Disclaimer

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