

Technical Data Sheet



Product name: ABSpro™

Version: v3

ABSpro is a professional high-strength ABS (Acrylonitrile Butadiene Styrene) based 3D printer filament – which has been reinforced with a mixture of Styrene Maleic Anhydride (SMA) and PolyCarbonate (PC) – resulting in an incredibly strong and even more impact resistant filament. ABSpro is extremely strong, has a high gloss and is extremely suitable for printing mechanical parts with high precision and fine detail and has exceptional endurance properties.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.05 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			

Formfutura BV	CoC: 69099502	Tel: +31 (0)85 002 0881
Groenestraat 215	VAT: NL857733709B01	Email: info@formfutura.com
6531 HH Nijmegen	EORI: NL857733709	Website: www.formfutura.com
The Netherlands		

All information supplied by or on behalf of Formfutura in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but Formfutura assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the forementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications.