

Fortis ASA PRO 3D Printing Filament is an industrial plastic material. Its physical properties are very similar to ABS. Compared with ABS, it has a very big advantage: it has great resistance to ultraviolet rays and weathering, and can still preserve the original color and shape even in harsh or sun exposure. Therefore, using ASA filament for 3D printing is very suitable for printing outdoor models.



Physical Properties	Typical Value	Test Method
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Material Density	1.07g/cm ³	ISO1183
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Physical Parameters (Injection)	Typical Value	Test Method
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Melt Flow Rate	8g/10min	ISO1133
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Tensile Strength	47MPa	ISO 527-2
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Tensile Elongation	20%	ISO 527-2
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Flexural Strength	65Mpa	ISO 178
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Flexural Module	2100Mpa	ISO 178
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Charpy Notched Impact	18KJ/m ²	ISO 179-1
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Izod notched impact	18KJ/m ²	ISO 180
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Vicat Softening Temperature	196°C	ISO306
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Heat deflection temperature	80°C	ISO 75/A
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Physical Parameters (3D Printing)	Typical Value	Test Method
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Tensile Strength	31MPa	GB/T 1040.1-2006
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Bending modulus	1680MPa	GB/T 1040.1-2006
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Bending strength	44-47Mpa	GB/T 1040.1-2006
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Elongation at Break	1.8-2.2%	GB/T 1040.1-2006
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Printing 100% Infilling Parameter	Typical Value
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Printing temperature	240-260°C
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Platform temperature	85-110°C
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Size	N.W	G.W	Diameters	Packing Characteristic
XM	500g	700g	1.75mm / 2.85mm / 3.00mm	SmartBag, Security Seal
L	1000g	1200g	1.75mm / 2.85mm / 3.00mm	SmartBag, Security Seal



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