

# Technical Data Sheet



## Product name: EasyFil™ ABS - Glow in the Dark

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Version: v2

EasyFil™ ABS is an “easy to use” high-end ABS (Acrylonitrile Butadiene Styrene ) type of 3D printer filament. Because of its superb process stability and physical features, EasyFil™ ABS cannot be compared to regular ABS. EasyFil™ ABS is light and durable, has a very high impact-resistance, is extra strong, and above all is “easy to print” because of its limited warping.

Properties	Typical value	Test Method	Test condition
<b>Physical</b>			
Specific gravity	1.03 g/cc	ISO 1183	-
Melt flow rate	5.5 cm <sup>3</sup> /10min	ISO 1133	220° C/10Kg
Water absorption	1.03%	ISO 62	Saturated at 23° C
Moisture absorption	0.21%	ISO62	Equilibrium 23° C/50% RH
<b>Mechanical</b>			
Impact strength	36 KJ/m <sup>2</sup>	ISO 180/A	Izod Notched @23° C (73° F)
Tensile strength	38 Mpa	ISO 527	Stress @ Yield 23° C
Tensile modulus	1900 Mpa	ISO 527	-
Elongation at break	9%	ISO 527	Nominal Strain at Break, 23° C
Flexural strength	± 68.7 Mpa	-	-
Flexural modulus	± 2250 Mpa	-	-
Hardness	74 Mpa	ISO 2039-1	Ball Indentation Hardness
<b>Thermal</b>			
Print temperature	± 220 - 270° C	-	-
Melting temperature	± 145 ± 10° C	ISO 294	-
Viscat softening temp.	± 103° C	ISO 306	VST/A/50 (50° C/h, 10N)
<b>Optical</b>			
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	No			

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