

# Technical Data Sheet



**Product name: ClearScent™ ABS**

**Version: v3**

ClearScent ABS is an extremely printer friendly Methyl Methacrylate-Acrylonitrile-Butadiene-Styrene type of 3D printer filament which is transparent in its original form and doesn't produce any unpleasant odours when being 3D printed. Besides its transparency and odourless processing features ClearScent ABS is nearly warp-free, has an excellent thermal stability and its 3D printing flowing behaviour is fine-tuned for optimal 3D printing results.

Properties	Typical value	Test Method	Test condition
<b>Physical</b>			
Specific gravity	1.06 g/cc	ASTM D792	-
Melt flow rate	12.0 g/10min	ASTM D1238	220° C/10Kg
Water absorption	-	-	-
Moisture absorption	-	-	-
<b>Mechanical</b>			
Impact strength	17 KJ/m <sup>2</sup>	ISO 180/A	Izod Notched @23° C (73° F)
Tensile strength	39.2 Mpa	ASTM D638	@Yield 50mm/min (2 inch/min)
Tensile modulus	± 1900 Mpa	-	-
Elongation at break	35%	ASTM D638	@ Break 50mm/min (2 inch/min)
Flexural strength	60.8 Mpa	ASTM D790	15mm/min
Flexural modulus	1833 Mpa	ASTM D790	15mm/min
Hardness	100	ASTM D785	Rockwell R-scale
<b>Thermal</b>			
Print temperature	± 220 - 260° C	-	-
Melting temperature	-	-	-
Viscat softening temp.	± 82° C	ASTM D648	6.4mm, 18.6Kg (Unannealed)
<b>Optical</b>			
Haze	2.2%	ASTM D1003	-
Transmittance	90%	ASTM D1003	-
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		

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