

# Technical Data Sheet



## Product name: ClearScent™ ABS

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Version: v2

ClearScent™ ABS is an “easy to use” transparent and almost odourless High Impact MABS (Methyl Methacrylate-Acrylonitrile-Butadiene-Styrene) type of 3D printer filament. When 3D printed, ClearScent™ ABS is almost odourless compared to “normal” ABS, because it only contains a very low percentage of Butadiene.

By being slightly modified unique features like — a transparency of 90%, very limited warping, great thermal stability and flowing behaviour — are obtained with ClearScent™ ABS and still ClearScent™ ABS is much more impact resistant than many other 3D printer filaments.

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			
FDA Approved	Yes			

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