www.versalis.eni.com

Provisional technical data sheet

info.styrenics@versalis.eni.com

IMPRESSIO®

ABS B10

ABS

Copolymer

Impressio® ABS B10 is an ABS easily processable with good mechanical and thermal properties.

The product has been optimized for the production of filaments dedicated to 3D printing (FDM), and its properties makes it compatible with most of the commercial 3D printers.

The processing technology used to produce Impressio® ABS B10 makes it one of the cleanest grades on the market (low organic volatile content).

Main applications

Impressio® ABS B10 has been designed to produce 1.75 and 2.85mm filaments used into 3D printers for the production of prototypes or final goods.

Main properties

Property	Conditions	Standard	Unit	Value
General				
Density	-	ISO 1183	g/cm^3	1.04
Rheological				
Melt flow index	220°C – 10kg	ISO 1133	g/10'	25
Thermal				
Vicat softening temperature	50N – 120°C/h	ISO 306/B 120	°C	96
Deflection temperature under load (annealed) HDT	1.82MPa – 120°C/h	ASTM D 648	°C	96

Processing notes

Impressio® ABS B10 has a very good processability with standard filament extruders, and allows a good thickness stability.

Standard processing conditions (*) for the production of a 1.75mm to 2.85mm filament.

Melt temperature (°C) 210 - 240

(*) The processing conditions may vary depending on the extrusion line and the cooling conditions.

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Storage and Handling

Impressio® ABS B10 is supplied in pellets form.

The product should be stored in dry conditions at temperature below 50°C and protected from direct sunlight. Improper storage can initiate degradation which results in odor generation, colour changes and can have negative effects on the physical properties of the product.
Before using this product it is recommended to read and understand the relevant Safety Data Sheet.

Availability

Contact the versalis sales office nearest to you regarding availability and your specific application requirements.

Food contact declaration

Impressio® ABS B10 complies with the European Union (Reg. 10/2011) and the USA (FDA) rules, related to the use of plastic materials intended for contact with foodstuffs.

TECHNICAL SERVICE

Versalis S.p.A.

Via Taliercio, 14
46100 Mantova, Italia
Tel. +39 0376 30 5202
Fax +39 0376 30 5299

IMPORTANT: please consult the relevant safety data sheet for more detailed information. The information and data presented herein are to the best of our knowledge true and accurate but no warranty or guarantee, expressed or implied, is made nor is any liability accepted with respect to the use of such information and data.
versalis is available to provide the guaranteed values for each product on demand.

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