

Technical Data Sheet



Product name: Atlas Support™

Date of issue: 1 May 2016

Version: v1

Atlas Support™ is the next generation in water-soluble support materials for dual extrusion FDM 3D printing. Atlas Support™ is an unique PVA blend which has a far more improved thermal stability compared to "normal" PVA and by that ensures a much more stable dual extrusion printing process.

Atlas Support™ bonds extremely well to a wide variety of thermoplastics such as PLA, ABS, HIPS, TPE, TPU, PETG, ASA, etc... and Atlas Support™ is much less sensitive to degradation by humidity. Atlas Support's unique set of characteristics really take dual extrusion FDM 3D printing to the next level.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.22 g/cc	ASTM D1505	-
Melt flow rate	2,3 g/10min	-	220° C/10Kg
Water absorption	-	-	-
Moisture absorption	-	-	-
Mechanical			
Impact strength	1.7 KJ/m²	ISO 179	Charpy Notched @23° C (73° F)
Tensile strength	-	-	-
Tensile modulus	3500 Mpa	ISO 527	1mm/min
Elongation at break	-	-	-
Flexural strength	-	-	-
Flexural modulus	-	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 180 - 205° C	-	-
Melting temperature	± 163° C	-	-
Viscat softening temp.	± 60,2° C	ISO 306	VST/A/50 (50° C/h, 10N)
Optical			
Haze	-	-	-
Transmittance	-	-	-
Gloss	-	-	-

Product details, certifications and compliance	
HS Code	39169090
REACH compliant	Yes
RoHS certified	Yes
FDA compliant	No

Diameter	Tolerance	Roundness
1.75mm	± 0.05mm	≥ 95%
2.85mm	± 0.10mm	≥ 95%

Formfutura VOF	CoC: 55502105	Tel: +31 (0)85 002 0881
Groenestraat 215	VAT: NL851741083B01	Email: info@formfutura.com
6531 HH Nijmegen	EORI: NL851741083	Website: www.formfutura.com
The Netherlands		

All information supplied by or on behalf of Formfutura in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but Formfutura assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the forementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications.