

Technical Data Sheet



Product name: Atlas Support™

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/m ²	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		Diameter	Tolerance	Roundness
HS Code	39169090	1.75mm	± 0.05mm	≥ 95%
REACH compliant	Yes	2.85mm	± 0.10mm	≥ 95%
RoHS certified	Yes			

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