Technical Data Sheet

Product name: AquaSolve™ - PVA

Date of issue: 29 October 2015
Version: v2

AquaSolve™ PVA is an "easy to use" high-end PVA (PolyVinyl Alcohol) type of 3D printer filament. AquaSolve™ PVA is a rapidly cold water soluble PolyVinyl Alcohol type of filament, which bonds extremely well to (thermo)plastics and because of its process stability is "easy to print" at relatively low temperatures.
AquaSolve™ PVA has a limited smell during printing and is non-toxic and biodegradable once dissolved in water.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.23 g/cc	ASTM D1505	-
Melt flow rate	14-20 g/10min	-	190° C/21.6Kg
Water absorption	-	-	-
Moisture absorption	-	-	-
Mechanical			
Impact strength	1.6 KJ/m²	ISO 179	Charpy Notched @23° C (73° F)
Tensile strength	78 Mpa	ISO 527	Stress @ Yield 23° C
Tensile modulus	3860 Mpa	ISO 527	-
Elongation at break	9.90%	ISO 527	Nominal Strain at Break, 23° C
Flexural strength	-	-	-
Flexural modulus	-	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 180 - 205° C	-	-
Melting termperature	± 163	-	-
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%

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