BCN3D FILAMENTS

BVOH

Ultrafuse BVOH, ideal water-soluble support material for your 3D print

Printing complex designs may only be possible with temporary support structures. Ultrafuse BVOH water-soluble support filament has been designed to easily dissolve in water. The solubility is increasing with higher water temperature. It offers great compatibility to a variety of materials: PLA, PRO1, ABS, ABS Fusion+, PA and PAHT CF15. Store this monofilament in a sealed bag or container to prevent moisture uptake.

BCN3D FILAMENTS

BVOH - *Technical information including:*

General Properties		Standard
Printed Part Density (conditioned)	1138 kg/m3 / 71.0 lb/ft3	ISO 1183-1

Thermal Properties		Standard
Glass Transition Temperature	69 °C / 156 °F	ISO 75-2
Crystallization Temperature	122 °C / 252 °F	ISO 75-2
Melting Temperature	175 °C / 347 °F	ISO 75-2
Melt Volume Flow Rate	11.4 cm3 /10 min / 0.7 in3 /10 min (210 °C, 2.16 kg)	ISO 75-2

Mechanical Properties | Conditioned specimens				
Print direction	***Standard***	***XY***	***XZ***	***ZX***
		Flat	On its edge	Upright
Tensile strength	ISO 527	33.7 MPa / 4.9 ksi	-	8.7 MPa / 1.3 ksi
Elongation at Break	ISO 527	14.8 %	-	0.6 %
Young's Modulus	ISO 527	2339 MPa / 339 ksi	-	1426 MPa / 207 ksi
Flexural Strength	ISO 178	53.8 MPa / 7.8 ksi	50.3 MPa / 7.3 ksi	11.4 MPa / 1.7 ksi
Flexural Modulus	ISO 178	2236 MPa / 324 ksi	1807 MPa / 262 ksi	1081 MPa / 157 ksi
Flexural Strain at Break	ISO 178	4.8 %	4.4 %	1.0 %