

PRODUCT NAME: 3D FILAMENT PVB 1,75mm

PRODUCT DESCRIPTION: PVB filament is a polyvinyl butyral in the form of a thread, designed for 3D printing using the FFF/FDM method. Filament coiled on spools, vacuum-packed with desiccant in a PET/PE bag, and then in a box.

STORAGE: Store in dry area. Store in a closed container.

PRODUCT PARAMETERS

Parameter	Value
Filament diameter [mm]	1,75
Diameter tolerance [mm]	+/- 0,05
Oval tolerance [mm]	+/- 0,02

Net weight [g]	500
Weight with packaging [g]	900
Spool weight [g]	Transparent PC: 245
Spool dimensions [mm] (\varnothing / height / hole \varnothing)	Transp. PC: 200/55/52
Box dimensions [mm]	220/210/65

RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	200-225
Bed temperature [°C]	65-75
Cooling [%]	50-100
Closed chamber	Not necessary
We recommend that drying the filament before printing at 45°C for at least 4h	

PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	1,09	g/cm ³	ISO 1183
VICAT B	70	°C	ISO 306
Tensile modulus	2500	MPa	ISO 527
Tensile strength	57	MPa	ISO 527
Elongation at break	<5	%	ISO 527
Charpy impact strength	106	kJ/m ²	ISO 179/1
Charpy impact strength (notched)	2	kJ/m ²	ISO 179/1
HDT A	55	°C	ISO 75 (A/1,80 MPa/120 K/h)
HDT B	60	°C	ISO 75 (B/0,45 MPa/120 K/h)
Max. moisture absorption from air at 23°C and 50% relative humidity	<3	%	-
Melting point	180	°C	-
Glass transition temperature	70	°C	-
Isopropanol solubility	YES	-	-
Hardness	83	Shore D	ISO 14851
Toxicity	NO	-	-

The values above have been measured using standard test specimens made of non-colored material at room temperature. The figures should be considered as indicative values only. Actual properties of PVB parts can be affected by the printing parameters, design of the model, ambient conditions, application of the printout etc. It is essential that users test our products to determine whether they are suitable for their intended use. ROSA PLAST Sp. z o.o. accepts no liability for any health detriment or material losses or any other losses related to the use of the material.



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