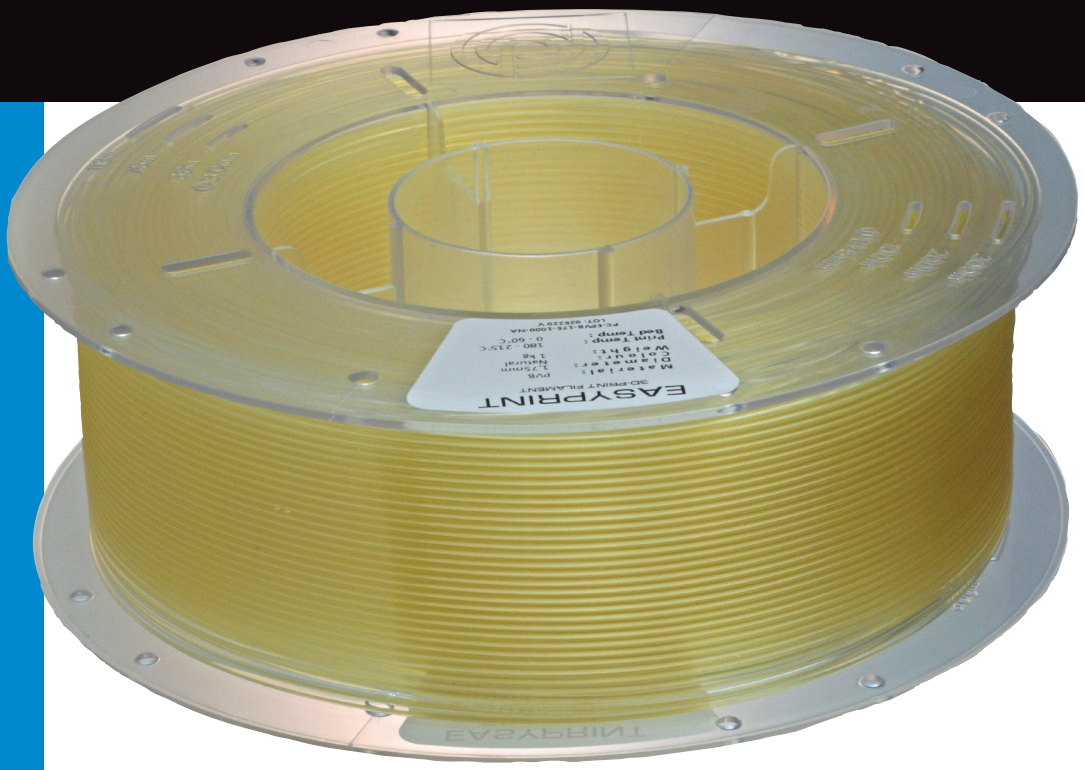
EASYPRINT™

PVB (POLYVINYL BUTYRAL)



Why should you use EASYPRINT™ PVB?

- 1 kg on the spool
- Perfect spooling, no more tangled filament
- Very easy to print with
- Perfect roundness
- Perfect diameter tolerance within +/-0.02mm
- Smart length indicator on spool

EASYPRINT™ PVB

PVB (**P**oly**V**inyl **B**utyral) is a new kind of filament that has some unique and attractive properties.

It has excellent layer bonding and the mechanical properties outperforms PLA. It has no odor or unpleasant smell and requires no heated bed (but recommended). PVB can be printed at fairly low temperatures (around 220) which means that it can be used in almost all printers on the market, including printers with a bowden set-up.

PVB is the first type of filament that is designed for post-processing and the removal of layer lines to achieve a very smooth surface. This is done with the help IPA (Isopropanol) and you can spray it or dip the whole print in it depending on the effect you are after. Once this is done you are left with a completely smooth surface.

PRIMA™ -CREATOR-

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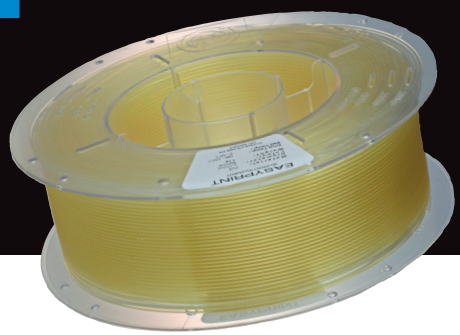

Characteristics
Polyvinyl butyral (PVB) grades with different molecular weights, and varying degrees of acetalisation.

Recommended Uses
Binder for coatings (adhesion promotion/ corrosion protection primers, shop primers, wash primers, stoving enamels, varnishes and lacquers for different substrates). Binder for printing inks. Co-binder for powder coatings.
Temporary binder for ceramics. Binder for textile printing and non-woven. Wetting agent for grindings, esp. of organic pigments. Adhesives, pressure-sensitive adhesives and hotmelts.

Form supplied
Fine-grained, free-flowing white powder.

Storage
Mowital B grades can be stored in its original packaging under dry and cool conditions for at least 12 months.

Waste disposal
In accordance with current regulations and/or after consultation with site operator and/or with the responsible authorities Mowital may be taken to waste disposal sites or incineration plants.

Industrial Safety and Environmental Protection
Not classified as a dangerous substance or preparation according to the current criteria of chemical legislation, or of the EU Directives (1272/2008). A safety data sheet is available upon request.

Specification Data

Grade	Non-volatile content (DIN 53216)	Content of polyvinyl alchohol [1]	Content of polyvinyl acetate [2]	Dynamic viscosity [3] 10% solution in Ethanol [4]
	wt-%	wt-%	wt-%	mPa · s
Mowital B 14 S	≥97,5	14 - 18	5 - 8	9 - 13
Mowital B 16 H	≥97,5	18 - 21	1 - 4	14 - 20
Mowital B 20 H	≥97,5	18 - 21	1 - 4	20 - 30
Mowital B 30 T	≥97,5	24 - 27	1 - 4	30 - 55
Mowital B 30 H	≥97,5	18 - 21	1 - 4	35 - 60
Mowital B 30 HH	≥97,5	11 - 14	1 - 4	35 - 60
Mowital B 45 H	≥97,5	18 - 21	1 - 4	60 - 90
Mowital B 60 T	≥97,5	24 - 27	1 - 4	180 - 280
Mowital B 60 H	≥97,5	18 - 21	1 - 4	160 - 260
Mowital B 60 HH	≥97,5	12 - 16	1 - 4	120 - 280
Mowital B 75 H	≥97,5	18 - 21	0 - 4	60 - 100 [5]

[1] Hydroxyl groups in terms of polyvinyl alcohol
[2] Acetyl groups in terms of polyvinyl acetate
[3] according to DIN 53015, at 20 °C
[4] containing 5 % water
[5] viscosity of a 5 % solution

Our Mowital grades are named using a self explaining nomenclature. The tradename Mowital is followed by a capital B stating the butyraldehyde used. The numbers refer to the degree of polymerization, the higher the number the higher the degree of polymerization (viscosity). The suffixes T, H, S and HH indicate the degree of acetalisation (T being the lowest and HH being the highest).

Additional Data

Grade	Glass transition temperature (DSC, ISO 11357-1)	Water up-take after 24h water immersion [1] at 20°C	Bulk density (DIN EN 543, Dec. 1991)
	°C	wt-%	g / l
Mowital B 14 S	60	4 - 6	340
Mowital B 16 H	63	4 - 6	330
Mowital B 20 H	64	4 - 6	330
Mowital B 30 T	70	6 - 10	300
Mowital B 30 H	68	4 - 6	320
Mowital B 30 HH	63	4 - 6	210
Mowital B 45 H	69	4 - 6	240
Mowital B 60 T	72	6 - 10	270
Mowital B 60H	70	4 - 6	250
Mowital B 60 HH	65	3 - 5	210
Mowital B 75 H	73	4 - 6	200

These data are used solely to describe the product. They are not subject to covnstant monitoring or part of the specification.
[1] dry film thickness of test specimen: 0,1 mm.