

### Description

HVB-0005 (formerly known as Hipol 18 LV) is a low viscosity thermoplastic Polyvinylbutyral Resin.

### Characteristics

- Very large surface area
- Medium molecular weight
- Outstanding sensorial properties
- Soluble in alcohols or glycol ethers
- Compatible with esters and ketones, Nitrocellulose, Epoxy Resin, Epoxy Alkyds, Phenolic Resins, Polyurethane, Melamine-Formaldehyde Resins, Ketonic Resins, Polyamides
- Reactive via free hydroxyl group

### Suggested Application

- Printing Inks and Lacquers:
  - Flexo or Gravure
  - Water resistance
  - Blocking resistance
  - Pigment wetting
  - Good flow
  - Adhesion to Cellulose Acetate, Polyester, Polystyrene, Metalized Film
  - Food packaging
- Wash Primers:
  - For Steel storage, tanks, ship bottoms, airplanes, bridges, dam locks, trailers, farm equipment, automotive, rail coaches, etc
  - Flexible films with good metal adhesion
- Adhesives:
  - Plasticizer for Epoxy, Phenolic, Melamine-Formaldehyde or Isocyanate based formulations
  - Improved interfacial adhesion, flexibility
  - Temperature, solvent, chemical resistance

- Ceramics
  - 2% - 4% as temporary binder
  - Degrades during sintering with little residue
  - Improved green strength and dimensional stability

### Typical Properties

Acid value [mg KOH/g]	≤ 1
Appearance	White powder
Bulk density [g/cm <sup>3</sup> ]	0.245 - 0.291
Viscosity* @ 30 °C, FCB4 [s]	48 - 58
Polyvinyl alcohol [% w/w]	14 - 17
Polyvinyl acetate [% w/w]	1.0 - 1.5
Polyvinyl butyral [% w/w]	80 - 90

\*in 80% Ethanol

### Storage

The resin should be stored in original, unopened packaging in a cool, dry place and should not be exposed to direct sunlight. Typical storage temperatures should be between 15 °C and 30 °C.

### Shelf Life

The product has a shelf life of at least 12 months from the date of manufacture.

### Safety

When handling this product, please work according to the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

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