# HVB-0004 Polyvinylbutyral Resin



## **Description**

HVB-0004 (formerly known as Hipol B 60) 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:
  - o Flexo or Gravure
  - Water resistance
  - o Blocking resistance
  - Pigment wetting
  - o 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

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

# **Typical Properties**

≤ 1	Acid value [mg KOH/g]
White powder	Appearance
0.245 - 0.291	Bulk density [g/cm³]
55 - 60	Viscosity* @ 30 °C, FCB4 [s]
17 - 19	Polyvinyl alcohol [% w/w]
1.9 - 2.3	Polyvinyl acetate [% w/w]
75 - 85	Polyvinyl butyral [% w/w]

<sup>\*</sup>in 90% 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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This Technical Data Sheet can only be of an advisory nature. Our data reflect the latest state of our knowledge and are based on the characteristics established in the laboratory and on practical experience. Because there are many factors under the control of the user which may affect processing or application/use, it is necessary for the user to carry out appropriate tests to determine whether the product is technically and safely suitable for the particular purpose, prior to use. No warranties of any kind, either expressed or implied, are made regarding the product here described. We assume no liability for correctness.

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