



# Vitel® 1200B

## COPOLYESTER EXTRUSION RESIN

### KEY FEATURES

- High tensile strength and low elongation
- Excellent abrasion resistance
- Extrudable

### DESCRIPTION

Bostik Vitel® 1200B is a thermoplastic, high molecular weight, aromatic, linear saturated polyester resin. It is a hard resinous amorphous polymer with specialized use, either alone or modified, for various applications. The limited solubility of V1200B makes it well suited for use as a primer for overprinting with many inks. High abrasion resistance and outdoor color stability are important properties exhibited by films and coatings based on this resin.

### KEY BENEFITS

- High cohesive strength
- Good outdoor color stability
- Peel characteristics well suited for food packaging applications

### PACKAGING

V1200B is sold in bags, drums, and bulk bags.

### SHELF LIFE

Approximately 12 months when resin is stored in originally closed containers at temperatures between 41 and 95°F (5 - 35°C).



CLEAR COATINGS

PIGMENT DISPERSING

HEAT SEAL COATINGS

### TYPICAL PHYSICAL PROPERTIES

Description	Results
Color	Clear to pale yellow
CIE Lab color (L*)	90 (min.)
CIE Lab color (b*)	5 (max.)
Form	Granule or Pellets
Intrinsic Viscosity	0.59 dL/g
Melt Viscosity (ASTM D 3236-88)	11,790 P @ 190°C 3,730 P @ 215°C 1,340 P @ 240°C
Specific Gravity	1.34
Tensile at Break	11,000 psi
Elongation at Break	5%
Shore Hardness D (ASTM D 2240-86)	80 @ 25°C
Typical Polymer Properties	Acid Number : 1-3 Hydroxyl Number: 3-6 Tg: 158°F (70°C) Mn : 28,000 Mw : 43,000 Mz : 72,000 Mw/Mn : 1.75 (polystyrene ref.)

## STORAGE & HANDLING

Bostik Vitel 1200B can retain or develop static charge due to handling. Precautions against a static discharge should be taken particularly in areas where solvent vapors exist. Under typical ambient conditions, Bostik Vitel 1200B is an inert material. To maximize resin performance, Bostik Vitel 1200B should be dried before using in a melt application.

## SOLUBILITY

Bostik Vitel® 1200B is soluble in THF, 1,3-Dioxolane, cyclic ethers, chlorinated or stronger solvents but is not soluble in esters, ketones or Toluene/alcohol blends or solvents.

## SOLUTION POT LIFE

Bostik Vitel in solution has very good pot life stability. If container is well sealed solution will keep for at least 6 months at room temperature storage. When used in conjunction with curative, pot life will vary but not recommended to hold reactive solution more than 8 hours before application.

## APPLICATION TECHNIQUES

V1200B be used on all dry laminating machines, with smooth or rotogravure rollers. The adhesive system should be processed at a solids content of approx. 15-20% when applied via gravure. Ideal coating viscosity is between 75 - 115 cP. At least 2 g/m<sup>2</sup> (dry) is recommended, but optimum adhesion is obtained with an application weight of approx. 3 g/m<sup>2</sup>. For aggressive requirements, the coating weight needs to be increased to 4 g/m<sup>2</sup> or higher.

## DRYING

Drying conditions must be adjusted to substrate, application weight and line speed in order to avoid the retention of solvents. The dried and fully cured adhesive film will be transparent and neutral in odor.

## FDA 21 CFR NUMBERS

Please contact your Bostik representative with the specific application for additional information on food contact approvals for V1200B.

## ACTIVATION TEMPERATURE

The minimum activation temperature for V1200B is 150°C but 210°C is recommended.

## HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet should be consulted for proper handling, clean up and spill containment before use. Keep containers covered to minimize contamination.

Odor / Taste

Mild / None

## OTHER TYPICAL PROPERTIES

Description	Results
Melt flow (ASTM E 28-67)	302°F (150°C)
Melt index (Dried)(ASTM D 1238-86)	8 g/10min @ 190°C
Oxygen diffusion, cc/100 sq in/24 hour/1atm/1mil (ASTM D 3985-81)	13
MVTR, g/24 hr/100 sq in (ASTM F 372-73)	5.8
MVTR, g/24 hr/100 sq in (ASTM F 374-73)	2.3
Dielectric strength (V/mil)	1 mil : 3,000-4,500 3 mil : 3,640 7 mil : 1,000-1,500
Power factor (1 Megacycle)	0.75%
Dielectric constant (1 Kilocycle)	3.88%
Volume resistivity (ohm/cm)	3.2x10 <sup>16</sup>

## LIMITED WARRANTY

The Limited Warranty for this product can be found at [www.bostik-us.com/resource-center/warranties](http://www.bostik-us.com/resource-center/warranties) or by calling 1-800-726-7845 (choose option 2, then option 2 again). To the maximum extent allowed by law, Bostik disclaims all other express or implied warranties, including without limitation warranties of merchantability and fitness for a particular purpose. Unless otherwise stated in the limited warranty, the sole remedy for breach of warranty is replacement of the product or refund of the buyer's purchase price. Bostik disclaims any liability for direct, incidental, consequential, or special damages to the maximum extent allowed by law. Disclaimers of implied warranties may not be applicable to certain classes of buyers and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. The Limited Warranty extends only to the original purchaser and is not transferable or assignable. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

## BOSTIK HOTLINE

Smart help  
**1-800-726-7845**

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