



Vitel® 2700B

COPOLYESTER COATING RESIN

KEY FEATURES

- Good balance of tensile strength and flexibility
- Excellent clarity and UV resistance
- Can be cross-linked for increased performance

DESCRIPTION

Vitel® 2700B is a high molecular weight, linear, saturated copolyester resin. It is a hard amorphous polymer exhibiting high tensile strength and low elongation with superior scuff resistance. Vitel® 2700B is compatible with other Vitel® resins and can be used as a modifier for reducing blocking tendencies and/or increasing cohesive strength. It can also be cross-linked with an isocyanate system such as Boscodur® 21 for applications requiring high moisture resistance and durability.

PACKAGING

Vitel® 2700B is packaged in bags and drums. Contact your Bostik representative for other packaging options.

SHELF LIFE

Vitel® 2700B has a shelf life of 12 months when stored in original, closed containers at temperatures between 5 and 35°C.

STORAGE & HANDLING

Like all synthetic resins, Vitel® 2700B can retain or develop static charges due to its handling. Precautions against a static discharge should be taken, particularly in areas where solvent vapors exist.

Otherwise, there are no special precautions necessary in handling this resin. Under typical ambient conditions, Vitel® 2700B is an inert material.



COIL/CAN COATINGS

HEAT SEAL COATINGS

INK BINDERS AND PRIMERS

TYPICAL PHYSICAL PROPERTIES

Description	Results
Appearance	Clear yellow pellets
Specific Gravity	1.25
Shore Hardness D @ 25 °C	78
Melt Flow Index (190 °C, 2.16 kg)	11 g/10 min
Viscosity @ 215 °C	279,000 cPs
Tensile Strength @ 25 °C	6,500 psi
Elongation @ 25 °C	3%

OTHER TYPICAL PROPERTIES

Description	Result
Intrinsic Viscosity	0.74 dl/g
Molecular Weight (Mw)	67,000 Da
Acid Number	1-2 mgKOH/g
Hydroxyl Number	2-5 mgKOH/g
Glass Transition Temperature	50 °C
Softening Point (Ball & Ring)	142°C

Vitel® 2700B should be stored below its glass transition temperature (47 °C) so that blocking of the resin does not occur.

APPLICATION TECHNIQUES

Vitel® 2700B is most frequently applied from solution; therefore, solvent selection is important. Vitel® 2700B is soluble in MEK, MEK/toluene blends, cyclic ethers, chlorinated or stronger solvents. Once in solution, the system can be used on all dry laminating machines, with smooth or rotogravure rollers.

A minimum coating weight of 2 g/m² (dry) is recommended. Optimum adhesion is obtained with a coating weight of approximately 3 g/m². For aggressive requirements, the coating weight needs to be increased to 4 g/m² or higher.

DILUTION

Dilution may be done with PU grades (< 0.1% H₂O-content) of ethyl acetate, acetone, MEK or a mixture of these solvents. The adhesive system should be processed at a solids content of approximately 20-23% when applied via gravure. Ideal coating viscosity is between 75-115 cP.

Bostik has the capability to solvate Vitel® 2700B and offers solvent-based material for customers preferring this option.

SOLUTION POT LIFE

Vitel® 2700B in solution has very good pot life stability. If container is well sealed, the solution will keep for at least 6 months at room temperature storage. When used in conjunction with curative, pot life will vary, but it is not recommended to hold reactive solution more than 8 hours before application.

DRYING

Drying conditions must be adjusted to the 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.

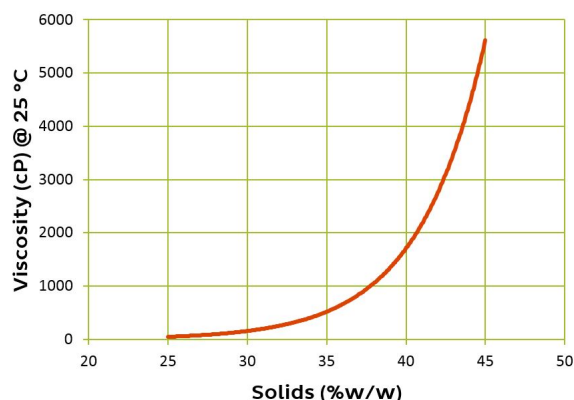
ACTIVATION TEMPERATURE

The minimum activation temperature is 212°F (100°C) but a temperature of 288°F (142°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.

VISCOSITY CURVE - Methyl Ethyl Ketone



LIMITED WARRANTY

The Limited Warranty for this product can be found at 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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