

3300B

Vitel[®] Adhesives

Product Description

VITEL 3300B is a thermoplastic, high molecular weight, aromatic, linear saturated polyester resin. It is a flexible amorphous polymer, slightly tacky at room temperature, with high elongation and moderate tensile values. Its long term solution stability in aromatic or ketone solvent systems makes VITEL 3300B a very good adhesive binder for attaching difficult to adhere webs to a variety of substrates resulting in flexibility, improved pigment binding and electrical resistance. VITEL 3300B is often used with a polyisocyanate as a two part laminating adhesive. The major application of VITEL 3300B is in adhesive applications or as a modifier for hard resinous coatings. When used as a modifier, VITEL 3300B improves flexibility and adhesion to a variety of substrates.

Product Properties

Property	Limit	Test Method
Intrinsic viscosity	0.75-0.85	QC8K
CIELAB color		QCV45
L*	95 min.	
b*	30 max.	
Solubility* (25% solids in methyl ethyl ketone)	Transparent solution	

Typical Applications

- Laminating adhesives
- Ink vehicles
- Polymeric plasticizer for other VITEL hard resin coatings



Solubility

Since VITEL 3300B is most frequently applied from solution, solvent selection is important. VITEL 3300B is soluble in methyl ethyl ketone, methyl ethyl ketone/toluene blends, cyclicethers, chlorinated or stronger solvents.

Storage and Handling

Elevated warehouse temperatures may cause more cold flow in the resin and difficulties in the removal of the wrapping film. Static charges may also develop due to the unwrapping of this film. 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 3300B is an inert material.

The material safety data sheet (MSDS) should be consulted for information when employee safety is a concern. Refer to the technical bulletin "Safe Handling of VITEL Resins" for further information on handling and storage.

Vitel 3300B is available in the following sizes or solvated in various solvents.

- 5 x 6 bag/box
- 10 - 3 pound bags/box
- 1" by 1' by 2' slabs
- 2" by 1' by 2' slabs

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Typical Properties

Form:	resin
Color:	clear to pale yellow
Odor:	none
Taste:	none
Specific gravity:	1.22
Solution viscosity, No. 4 Ford Cup, 25% solids in methyl ethyl ketone (QCV05)	30-52 seconds
CAS number:	75701-44-9
TSCA inventory:	yes
Package:	30 lb. box (3 bags at 10 lbs. each)

Chemical and Physical

Acid number:	1-3
Hydroxyl number:	3-6
Intrinsic viscosity (QC8K):	0.80
Tg, ½C:	
Onset:	11
Inflection:	16

Thermal

Melt flow, ½C (ASTM E 28-67):	125
Minimum heat seal:	27
½C – amorphous	

Mechanical

Tensile at break, psi:	500
Crosshead speed:	20" min.
(ASTM D 638-89, Type I, compression molded)	
Elongation at break, %:	800
(ASTM D 638-89, Type I, compression molded annealed 2 hours at 100½C)	
Shore hardness, D, 25½C:	25
Shore hardness, A, 25½C:	72
(ASTM D 2240-86)	

Barrier and Electrical

Oxygen diffusion:	43
cc/100 sq in/24 hour/1 atm/1 mil (ASTM D3985-81)	
Dielectric strength, volts/mil	
3 mil:	1,265
5 mil:	1,160
7 mil:	1,060

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PRODUCT # V3300B**DESCRIPTION:** Polyester**SUGGESTED USES:****CHARACTERISTICS:****TECHNICAL PROPERTIES:****Thermoset Viscosity**

Approximately

Density

1.22 g/cc @ 77 F (25 C)

Softening Point - N/A**Suggested Running****Temperature: 0 - 0 F (-18 - -18 C)**

APPLICATION CHARACTERISTICS:

V3300B

For performance test characteristics please contact your Bostik Findley sales or technical representative.

STORAGE:

Can be stored 0 days in a clean dry place, in its original package at an average temperature of 25°C or below. Storage temperature should not exceed 40°C.

PACKAGING:

For packaging options please call your Bostik Findley sales or technical representative.

SAFETY AND HANDLING:

Clean-up Procedure: Mineral oil or paraffin wax, not to exceed flash point as stated on the MSDS, followed by a thorough purge with the adhesive itself.

Material Safety Data Sheet should be consulted for proper handling before use.

Wear safety gloves and goggles when handling molten adhesive to minimize the risk of burns.

Keep containers covered to minimize contamination.

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