



McGEAN POLYVINYL ACETATE BEADS

| | Grades | | | |
|--|---|-------------|--------------|----------------|
| | <u>B-15</u> | <u>B-25</u> | <u>B-100</u> | <u>ASB-516</u> |
| Molar Viscosity*(cps) | 10.0 - 12.0 | 15.0 - 18.0 | 60 - 75 | 15 - 17 |
| Molecular Weight | 90,000 | 140,000 | 500,000 | 95,000 |
| Volatiles (%) | 1.5 | 1.5 | 1.5 | 2.0 |
| Acid (as acetic) % max | 0.1 | 0.1 | 0.1 | ---- |
| Softening Point (°C) | 130 +/- 10 | 155 +/- 10 | ---- | 135 +/- 10 |
| Form | Spherical granules, all pass 8 mesh screen | | | |
| Density, 20°C | 1.19 grams/cc | | | |
| Specific Heat | 0.39 cal/gram/°C | | | |
| Burning Rate | Slow | | | |
| Tensile Strength | Up to 5000 phi | | | |
| Water Resistance and Low Viscosity Grades | Prolonged immersion results in slight water absorption, particularly alkali-soluble ASB-516 | | | |

*The viscosities of the B-15, B-25, and ASB-516 beads are determined in a No. 200 Cannon-Fenske viscometer at 20°C. The viscosity of the B-100 bead is determined by a Brookfield Viscometer, Model RV at 20°C, with a RV spindle #1 at 20 RPM. To make the determinations, B grades are dissolved in toluene and the ASB-grade in aqueous ethanol (8.5% water).

McGean PVA Beads are small glass-like beads of high purity polyvinyl acetate used in laminating, label and hot melt adhesives, pigmented and grease-proof paper coatings, overprint varnishes, industrial lacquers and coatings, printing inks, textiles sizes and finishes, and numerous other applications. They are odorless, tasteless and nontoxic, are resistant to attack by weak acids, alkalies and salts, but are soluble in many organic solvents.

Being thermoplastic, McGean PVA Beads will soften with increasing temperature. Their heat stability is good below 100°C. Slight discoloration occurs above 150°C but decomposition does not start until 200-250°C.

McGean PVA Beads are produced in a range of molecular weights. As with other resins, physical properties such as solution viscosity, tensile strength and softening point increase with molecular weight.

ASB-516 polyvinyl acetate resin is modified to obtain solubility in alkaline systems while still retaining the valuable properties of polyvinyl acetate.

Films made from McGean PVA Beads are clear, colorless, greaseproof and heat sealable. McGean PVA Beads are generally modified with plasticizers to obtain the flexibility desired, and in many uses, they are also combined with a wide variety of other resins with which they are compatible.

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