

# deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING – SINCE 1880

## TECHNICAL DATA SHEET

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## M30

M30 is a low molecular weight, solid polyvinyl acetate. It is designed for use in solvent based coatings, inks and adhesives or melt extrusion systems. M30 can also be used as a low profile additive in unsaturated polyester composites, typically pultrusion and BMC processes.

### FEATURES

Rapidly dissolves in most organic solvents.

Can be melt processed.

Easily plasticised.

Can be combined with other M Grades.

Excellent substrate adhesion & film flexibility.

Very high light stability.

M30 is manufactured on a dedicated polymerisation plant and is produced in the form of colourless beads.



For further information regarding this product please refer to:

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| Property                     | Value                   | Unit  | Method <sup>1</sup> |
|------------------------------|-------------------------|-------|---------------------|
| Total Solid Content          | >99.0                   | %     | MTP1                |
| Viscosity 20% in ETAc @ 20°C | 17 - 25                 | mPa.s | MTP4                |
| Typical softening point      | 105 - 125               | °C    |                     |
| Typical molecular weight     | 85.000                  |       |                     |
| Tg                           | +36 ± 2                 | °C    |                     |
| Appearance                   | Solid, colourless beads |       |                     |

<sup>1</sup> internal method based upon the specified norm

### **Application Advice & Processing**

**Dissolving** - M30 is soluble in many organic solvents such as esters, ketones, aromatic hydrocarbons and lower alcohols. A more detailed list is available on the datasheet Solvent Solubility and Plasticiser Compatibility. M30 should be added carefully to the solvent system under sufficient agitation to ensure dispersion and suspension of the polymer beads.

**Melt** - M30 is thermoplastic and will gradually soften and flow with increasing temperature. At temperatures >120 C, the polymer can be mixed as received with EVA resins to formulate thermomouldable fabrics. Resins with a higher vinyl acetate content generally show better compatibility. M30 can also be used in the formulation of automotive sound damping foils by compounding with appropriate pigments and plasticisers. Heat activated coatings and adhesives can also be easily formulated.

**Compatibility** - M30 is compatible with other M Grade polymers, and can be mixed in any proportion to modify either solution or dry film properties. M30 can be plasticised with many types of plasticiser to modify film properties. Further details are available on request.

Solvent based adhesives including parquet flooring, solvent based inks & coatings, thermomouldable fabrics, heat seal adhesives, low profile additive for polyester composites.

### **Shipping and Storage**

M30 is a thermoplastic solid. To prevent sticking of the polymer beads the product should be stored in dry conditions, below +20 C (+68 F) out of direct sunlight. Pallets should not be stacked. Under these conditions the product has a storage life of at least 24 months from date of delivery. Product which has been stored for longer than 24 months should be tested before use. M30 is supplied in 25kg paper sacks each marked with the grade reference and batch number. The minimum order quantity is 1000kg on a stretch wrapped pallet.

### **Product Safety**

Before handling, please read the Safety Data Sheet of this product for advice on safety, use and disposal.

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