

deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING – SINCE 1880

TECHNICAL DATA SHEET

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M50

M50 is a medium molecular weight, solid polyvinyl acetate. It is designed for use in solvent based general purpose or parquet adhesives, coatings and inks, melt extrusion systems such as automotive sound damping foils and as a B side carrier in polyester SMC manufacture.

FEATURES

- Rapidly dissolves in most organic solvents.
- Can be melt processed.
- Easily plasticised.
- Can be combined with other M Grades.
- Excellent adhesion to a wide range of substrates.
- Very high UV & light stability.

M50 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:

McInnes, Malcolm

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Property	Value	Unit	Method ¹
Total Solid Content	>99.0	%	MTP1
Viscosity 20% in ETAc @ 20°C	80 - 140	mPa.s	MTP4
Typical softening point	140 - 160	°C	
Typical molecular weight	176.000		
Tg	42 ± 2	°C	
Appearance	Solid, colourless beads		

¹ internal method based upon the specified norm

Application Advice & Processing

Dissolving - M50 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. M50 should be added carefully to the solvent system under sufficient agitation to ensure dispersion and suspension of the polymer beads.

Melt - M50 is thermoplastic and will gradually soften and flow with increasing temperature. At >140 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. M50 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 - M50 is compatible with other M Grade polymers, and can be mixed in any proportion to modify either solution or dry film properties. M50 can be plasticised with many types of plasticiser to modify film properties. Further details are available on request.

Solvent based general purpose adhesives, parquet flooring adhesive, solvent based inks & coatings, automotive sound damping foils, heat seal adhesives, low profile additive for polyester composites.

Shipping and Storage

M50 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. M50 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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