

MCT5 is a low molecular weight, solid copolymer of vinyl acetate and crotonic acid. It is an extremely versatile polymer soluble in both solvent and alkaline aqueous systems.

FEATURES

Rapidly dissolves in most organic solvents

Dissolves in aqueous systems at pH >7.0

Can be melt processed and plasticised

Crosslinkable

Can be combined with other M Grades

Very high adhesion to metals and plastics

High light stability

MCT5 is manufactured on a dedicated polymerisation plant and is produced in the form of clear, slightly yellow granules.

Property	Typical Value	Unit	Method ¹
Total Solid Content	>99.0	%	MTP1
Viscosity 20% in ETAc @ 20°C	7 - 13	mPa.s	MTP4
Acid Value	35.0 - 45.0	mg KOH/g	MTP8
Typical softening point	100 - 120	%	
Typical molecular weight	36.000	Da	
Tg	46 ± 2	°C	
Appearance	Clear, slightly yellow granules		

¹ internal method based upon the specified norm

Application Advice

Dissolving - MCT5 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. By using water and either a fixed or fugitive alkali, an aqueous solution of MCT5 can be prepared. Solutions of solid content up to 50%, can be made by incorporating a proportion of a lower alcohol such as methanol, ethanol or isopropanol (IPA). Further information on solution preparation is available in MCT5, A Polymer for all Solutions.

Melt - MCT5 is thermoplastic and will gradually soften and flow with increasing temperature. Heat activated coatings and adhesives can also be easily formulated, which show excellent adhesion to metal surfaces.

Compatibility - MCT5 is compatible with other M Grade polymers, and can be mixed in any proportion to modify either solution or dry film properties. MCT5 can be plasticised with many types of plasticiser to modify film properties. Further details are available on request.

Solvent based adhesives, solvent based inks & lamination adhesives, heat seal adhesives, alkali removable coatings, pigment dispersion, paper impregnation for automotive filters, hot stamping foils.

Shipping and Storage

MCT5 is a thermoplastic solid. To prevent sticking of the polymer granules 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 12 months

from date of delivery. Product which has been stored for longer than 12 months should be tested before use. MCT5 is supplied in 25kg paper sacks each marked with the grade reference and batch number. The minimum order quantity is 1000kg supplied on 2 x 500kg pallets stretch wrapped together.

Product Safety

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