Uvacril M 25

Description

UVACRIL M25 is a UV-curing solvent-free acrylate copolymer.

Glass transition temperature Tg: -39°C (DSC)

Application

UVACRIL M25 is a pressure sensitive adhesive that is applied in molten form and then crosslinked by exposure to UV light. Reccommended applications: labels (film and paper permanent labels), tapes (double-sided, medical, insulating and speciality tapes), Graphics.
The degree of crosslinking and thus the adhesive properties can be modified by varying the UV exposure: high exposures increase shear strength, while low exposures yield higher tack and lower shear strength. Small deviations in the chosen radiation dosage have little effect on the adhesive properties.

Technical Specifications

Method of analysis	MU	Standard
1. Total Solids	%	> 99
106 Viscosity at 150 °C	mPa.s	17,000 - 30,000

Handling

UVACRIL M25 can be processed in conventional hot melt adhesive coating machines at 110-140°C. After application, the product must be exposed to UV light (conventional medium-pressure mercury vapour lamps or microwave-excited UV lamps are suitable). The most effective wavelength range is between 220 and 280 nm. Since irradiation is usually carried out from one side only, a slight gradient in crosslinking density in the coating sets in (obviously depending upon the coating weight); therefore coatings produced under identical conditions, except direct and transfer process, can exhibit different adhesive properties. To avoid crosslinking gradient, a coating weight of maximum 180 g/m^2 should not be exceeded.

Packaging

The product is supplied in fiber drums (190 kg).

Storing

Use within 12 months from production date (unopened and in the original packaging).

Notes

The product has been tested for:

cytotoxicity as per ISO 10993-5

skin irritation as per ISO 10993-23 (1)

skin sensitisation as per ISO 10993-10 and OECD 442E

According to the obtained results, the product is not cytotoxic, is not irritating to skin and is not sensitising.

For other details, please contact our Regulatory office.

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