Uvacril P1

OBSOLETE

Description

UVACRIL P1 is a UV-reactive solvent-free acrylate copolymer.

Application

UVACRIL P1 is used for pressure-sensitive adhesives that are applied in molten form and then crosslinked by exposure to UV light. Suggested applications: labels (filmic and paper permanent labels), tapes (double-sided, medical, insulating and speciality tapes).
The degree of crosslinking and thus the adhesive properties can be modified by varying the UV exposure: high exposures give greater shear strength, while low exposures gives higher tack and lower shear strenth. Small deviations in the chosen radiation dosage have little effect on the adhesive properties.

Technical Specifications

1. Total Solids	%
UVACRIL P1	99

Handling

UVACRIL P1 can be processed in conventional hot melt adhesive coating machines at 120-140°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 250 and 260 nm. Since irradiation is usually carried out from one side only, a slight gradient in crosslinking density in the coating sets in (obviously depending on the coating weight); therefore coatings produced under identical conditions, except direct and transfer process, can exhibit different adhesive properties.

Storing

UVACRIL P1 can be stored up to 12 months, protected from light in tightly closed containers, at temperatures below 30°C.

Notes

Glass transition temperature Tg (DSC) : -39°C
Viscosity at 130°C (shear rate 100 s-1, cone and plate both heated at 130°C): 30 - 70 Pa s

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Above information is reliable, but does not constitute warranty.

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