Uvacril R1

OBSOLETE

Description

UVACRIL R1 is an UV-curable solvent-free acrylate copolymer.

Application

UVACRIL R1 is used for pressure-sensitive adhesives that are applied in the molten form and then crosslinked by exposure to UV light.
Suggested application: labels (removable and deep freeze).
The degree of crosslinking and thus the adhesive properties can be modified by varying the UV exposure: high exposures give greater shear strenght, while low exposures gives higher tack and lower shear strenght.

Technical Specifications

1. Total Solids	%
UVACRIL R1	99.5±0.50

Handling

UVACRIL R1 can be processed in conventional hotmelt adhesive coating machines at 100-120 °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 maximum intensity of the lamps must lie in the 230-280 nm wavelenght range (between 250 nm and 260 nm the optimum crosslinking effect is reached). The exposure time depends on different factors: the quantity of adhesive applied, the type and quantity of additives added, the output of the lamps, ...

Storing

UVACRIL R1 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) : - 60°C
Viscosity at 110°C (shear rate 100 s-1, cone and plate both heated at 110°C): 5 - 35 Pa s

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Above information is reliable, but does not constitute warranty.

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