



# Uvacril KK27

(Provisional)

## Description

UVACRIL KK27 is a UV-curing solvent-free acrylate copolymer.

## Application

UVACRIL KK27 is a pressure sensitive adhesive that is applied in molten form and then crosslinked by exposure to UV light. It can be used for the production of technical tapes, plastic labels and high grammage products.

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 |
|--------------------|----|----------|
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|                           |   |          |
|---------------------------|---|----------|
| 190 Total Solids at 130°C | % | 99 - 100 |
|---------------------------|---|----------|

## Handling

UVACRIL KK27 can be processed in conventional hot melt adhesive coating machines at 120-140°C. After application, the product must be exposed to UV-C 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 upon the coating weight); therefore coatings produced under identical

conditions, except for direct and transfer process, can exhibit different adhesive properties.

## 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

Glass transition temperature T<sub>g</sub> (DSC) : -39°C