





# **Uvacril P3**

(Provisional)

# **Description**

UVACRIL P3 is a UV-reactive solvent-free acrylate copolymer.

# **Application**

UVACRIL P3 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**

Method of analysis	MU	Standard
1. Total Solids	%	> 99
106 Viscosity at 150 °C	mPa.s	18,000 - 25,000

# **Handling**

UVACRIL P3 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 on 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 80 g/m² should not be exceeded.

#### **Storing**

UVACRIL P3 can be stored up to 12 months, protected from light in tightly closed containers, at temperatures below 30°C.

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

#### **Notes**

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

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