

# ENCOR<sup>®</sup> 4085

ADHESIVES / PSA

ARKEMA COATING RESINS

## Product Application details

ENCOR<sup>®</sup> 4085 is an acrylic latex which dries into a film showing pressure sensitive properties. This product is stabilised with APE-free surfactants and is free from solvents and plasticizers.

ENCOR<sup>®</sup> 4085 has been designed for PSA articles. Excellent clarity and non-yellowing characteristics make it ideal for the manufacturing of filmic labels.

## Performance Benefits

- Ready to coat on silicone release paper
- Excellent flow and levelling
- Rheology properties suitable for Mayer bar and vario gravure coaters
- Good balance of adhesion and cohesion

## Polymer Type

- All Acrylic Copolymer

## Sales Specifications

Solid Content at 105°C, % (ISO 3251)	50 - 53
pH (ISO 976)	7.5 - 8.5
Viscosity at 23°C, mPa.s (Brookfield RVT, 20rpm) (ISO 2555)	100 - 300

## Other Characteristics<sup>1</sup>

Stabilizing system	A
Tg (DSC), °C	- 47
Density / Specific Gravity at 23°C, g/ml (ISO 2811)	1.02
Average Particle size, nm (ISO 13321)	400
Liquid Surface Tension (mN/m)	30.0

<sup>1</sup> The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

## Typical Adhesive Properties<sup>1</sup>

180° Peel after 24h on SS, N/25mm (FTM 1)	10 - 13
Loop tack on SS, N (FTM 9)	8 - 11
Shear adhesion from SS, h (FTM 8 / 1kg, 1in <sup>2</sup> )	> 50

Test settings: Backing corona treated pp 50 µm ; Coating weight: 20g/m<sup>2</sup> ; SS: Stainless Steel

## Formulation Guidelines

According to the involved coating system and the final application, addition of specific defoamers can be required. Compatibility and dosage have to be carefully checked in advance. In the case of poor wetting, it is suggested to decrease the surface tension with the addition of suitable wetting agents such as dioctyl sulfosuccinates.

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## Product Safety

Please refer to the corresponding Safety Data Sheet.

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## Storage & Handling

ENCOR® 4085 should be stored indoors in the original, unopened and undamaged container, in a dry place at storage temperatures between 5°C and 30°C. Exposure to direct sunlight should be avoided.

The product is protected to prevent any microbial deterioration during normal conditions of storage but care should be taken to avoid accidental contamination during subsequent handling and processing.

In the above mentioned storage conditions the shelf life of the resin will be 6 months from the shipping date

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The logo for ARKEMA, with the word "ARKEMA" in a bold, sans-serif font. The letters "A", "R", "K", "E", and "M" are in a dark blue color, while the letter "A" at the end is in a green color.