

ENCOR® 4086

ADHESIVES / PSA

ARKEMA COATING RESINS

Product

ENCOR® 4086 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.

Application details

ENCOR® 4086 has been designed for the production of pressure sensitive paper labels with permanent properties.

Performance Benefits

- Ready to coat on silicone release paper
- Very high peel adhesion and tack
- Excellent flow and levelling
- Rheology properties suitable for vario gravure coating machines

Polymer Type

- Acrylic copolymer formulated with a tackifying resin

Sales Specifications

(provisional*)

Solid Content at 105°C, % (ISO 3251)	49 - 51
pH (ISO 976)	4.0 - 5.5
Viscosity at 23°C, mPa.s (Brookfield RVT, 20rpm) (ISO 2555)	100 - 300

* These specifications are subject to change in the light of manufacturing experience, up to the point of full commercialisation

Other Characteristics¹

Stabilizing system	A
Tg (DSC), °C	- 35
Density / Specific Gravity at 23°C, g/ml (ISO 2811)	1.02
Average Particle size, nm (ISO 13321)	350
Liquid surface tension (mN/m)	28.0

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

Typical Adhesive Properties¹

180° Peel after 24h on SS, N/25mm (FTM 1)	12 - 18
Loop tack on SS, N (FTM 9)	12 - 15
Shear adhesion from SS, h (FTM 8 / 1kg, 1in ²)	> 5

Test settings: Backing: PET 50 µm ; Coating weight: 20g/m² ; SS: Stainless Steel

Formulation Guidelines

This product contains small amounts of defoamer. According to the handling process and the involved coating system, it might be necessary to increase their content. The compatibility and dosage have to be carefully checked in advance

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

ENCOR® 4086 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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