

ENCOR[®] 4138

ADHESIVES / PSA

ARKEMA COATING RESINS

Product Application details

ENCOR[®] 4138 is a pressure sensitive aqueous acrylic dispersion stabilised with APE-free surfactants and free from solvents and plasticizers.

ENCOR[®] 4138 has been specifically designed to be used in the manufacture of low noise polypropylene carton sealing tapes, consumer tapes and book covers.

Performance Benefits

- Ready to coat on corona/flame treated polypropylene
- Good cardboard wettability
- Excellent UV resistance
- Formaldehyde free*

* product formulated without formaldehyde or formaldehyde releasers. During normal conditions of use, this binder does not generate formaldehyde

Polymer Type

- Acrylic Copolymer

Sales Specifications

Solid Content at 105°C, % (ISO 3251)	54 - 56
pH (ISO 976)	7.5 - 8.5
Viscosity at 23°C, mPa.s (Brookfield RVT, 100rpm) (ISO 2555)	50 - 150

Other Characteristics¹

Stabilizing system	A
Tg (DSC), °C	- 43
Density / Specific Gravity at 23°C, g/ml (ISO 2811)	1.03
Average Particle size, nm (ISO 13321)	370
Liquid Surface Tension (mN/m)	34,2

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 1 min on SS, N/25mm (FTM 1)	4.0 - 5.0
Loop tack on SS, N (FTM 9)	6,0 - 8,0
Shear adhesion from SS, h (FTM 8 / 1kg, 1in ²)	> 100

Test settings: Backing: PP 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. 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.

ENCOR[®]

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

ENCOR® 4138 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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