

ENCOR[®] 4556

ADHESIVES / PSA

ARKEMA COATING RESINS

Product Application details

ENCOR[®] 4556 is a high solids acrylic latex which dries into a film showing pressure sensitive properties. This product is stabilized with APE-free surfactants and is free from solvents and plasticizers.

ENCOR[®] 4556 has been designed for the production of "all temperature" permanent pressure sensitive materials.

Performance Benefits

- High solids with low viscosity
- Ready to coat
- High tack and cohesion
- Good response to tackifiers
- Good aging stability
- Good performances in low temperature conditions

Polymer Type

- Acrylic Copolymer

Sales Specifications

Solid Content at 105°C, % (ISO 3251)	67 - 69
pH (ISO 976)	4.0 - 5.0
Viscosity at 23°C, mPa.s (Brookfield RVT, 20rpm) (ISO 2555)	400 - 1200

Other Characteristics¹

Stabilizing system	A
Tg (DSC), °C	- 54
Density / Specific Gravity at 23°C, g/ml (ISO 2811)	1.02
Average Particle size, nm (ISO 13321)	350
Liquid Surface Tension (mN/m)	32

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 - 15
Loop tack on SS, N (FTM 9)	9 - 12
Shear adhesion from SS, h (FTM 8 / 1kg, 1in ²)	> 50

Test settings: Backing: PET 50 µm ; Coating weight: 20g/m² ; 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, we suggest to decrease the surface tension with the addition of suitable wetting agents such as dioctyl sulfosuccinates.

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

ENCOR® 4556 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.

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

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