INDULOR
The Polymer Family

Induprint PAC 4201 S

- Emulsion polymer based on methacrylates, carboxylated

Fields of Application: **Printing Inks**

- Let-down vehicle for water-based flexographic and gravure-printing inks (for gift wrapping, tissue, wallpaper)

Characteristics

- high water and alkali resistance (after complete film forming)
- good transfer
- fast drying

Appearance	:	white emulsion	
Solid contents * (DIN EN ISO 3251)	:	47 – 49 %	
Viscosity at 20°C (DIN 53019-1) (Anton Paar RheolabQC; MS: CC27; D=38.7 s^{-1})	:	20 - 200 mPa·s	I
pH Value * (DIN ISO 976)	:	3.5 – 5.0	I
MFFT (DIN ISO 2115)	:	appr. + 60°C	
Glass Temperature (DSC) (DIN 51007)	:	appr. + 68°C	
Acid value * (DIN ISO 2114)	:	35 - 45 mg KOH/g solid	
Ionicity	:	anionic	
Freeze/Thaw Stability	:	unstable	
Coalescing agent	:	contained	

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* Specification values listed in our certificate of analysis

please turn

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Induprint PAC 4201 S

Remarks:

The hydrosol of Induprint PAC 4201 S can be produced at room temperature by addition of a water/solvent mixture or a water/coalescing agent mixture and neutralizing agent (see below).

Alkali resistance of the printing inks may be improved by blending the hydrosol of Induprint PAC 4201 S with alkali-resistant low MFFT polymers.

Neutralization:

Formulation 1:

48.0 g Water
25.0 g Isopropanol
2.0 g Ammonia solution 25 %

Under stirring
at room temperature adding of mixture of

75.0 g Induprint PAC 4201 S

150.0 g

Viscosity DIN 4: 60 sec

Formulation 2:

13.0 g Hexylenglycol
13.0 g Dowanol DPM
3.0 g Isopropanol
2.0 g AMP-90

under stirring adding of the

75.0 g Induprint PAC 4201 S in
20.0 g Water
24.0 g Water

150.0 g

Viscosity DIN 4: 25 sec

Starting Formulations:

No. 82 flexo ink
No. 214 screen printing ink for PVC

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