

Induprint SE 91

- ◆ Emulsion polymer based on styrene and acrylates

Fields of Application: **Printing Inks, Overprint Varnishes and Coatings**

- ◆ Binder for water-based overprint varnishes
- ◆ Let-down vehicle for water-based flexographic and gravure-printing inks

Characteristics:

- ◆ high heat resistance
- ◆ excellent gloss
- ◆ free of glycols or glycol ethers
- ◆ VOC < 0.05%

Appearance	:	white emulsion	
Solid Contents * (DIN EN ISO 3251)	:	44 - 46 %	
Viscosity * at 25°C (DIN 53019-1) (Anton Paar RheolabQC; MS: CC27; D= 121 s ⁻¹)	:	300 - 400 mPa·s	I
Viscosity DIN 4 cup at 20°C	:	90 - 110 sec	I
pH Value * (DIN ISO 976)	:	7.8 – 8.5	
Glass Temperature (DSC) (DIN 51007)	:	appr. + 99°C	
Acid Value	:	appr. 74 mg KOH/g solid	
MFFT (DIN ISO 2115)	:	appr. + 86°C	
Ionicity	:	anionic	
Freeze/Thaw Stability	:	stable	
			2013-09-11
* Specification values listed in our certificate of analysis			

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Remarks:

Apart from the mentioned properties Induprint SE 91 provides an excellent transfer, very good hold-out, fast drying and low foaming properties. The product is free of solvents and coalescing agents.

Induprint SE 91 is a very hard polymer. It is therefore necessary to modify the polymer by addition of coalescing agents (i.e. Dowanol DPM) or softer polymers to enable film formation and gloss improvement at normal operating temperatures.

Gloss improvement or a softer varnish may be obtained by the combination of Induprint SE 91 with Induprint SE 245 or Induprint SE 1985.

Further improvement of the heat-seal resistance is possible by adding Indunal Z 15 (ZnO solution).

Starting formulation:

No. 253 low solid OPV
No. 266 cheap OPV 38% solid

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