



**BASF**

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## Efka<sup>®</sup> PX 4703

Highly efficient dispersing agent for organic pigments

### Performance Highlights

- Strong viscosity reduction
- Excellent storage stability
- Broad compatibility towards different ink systems and pigments
- Improves color strength of organic pigments
- Excellent in stabilizing organic pigments in low viscosity systems
- Tin-free

### Characteristic Values

Appearance	Amber to brownish liquid
Amine Value	~56mg KOH/g
Active Ingredients	>99%



Suitable for printing ink and high performance industrial coatings

# Efka® PX 4703

High molecular-weight dispersing agent for high performance inkjet, flexographic ink systems and carbon blacks

Efka® PX 4703 is an 100% acrylic block copolymer active dispersing agent based on our advanced polymer technology. It is especially recommended for high performance systems such as inkjet inks (UV-curable and solvent-based) and UV-curable flexographic inks.

Efka® PX 4703 is also well suited for high performance pigments in UV oligomer and monomer formulations, which makes it a general purpose dispersant. It can be applied in both solvent-based and solvent-free industrial coatings applications.

## Flexo ink based on Paliotol® Yellow D 1155 (PY 185)

\*Pigmentation: 16%

DaoP: app. 19%

	Efka® PX 4703	Market Standard
Viscosity (23°C, D=100sec <sup>-1</sup> , mPas)	800	1,935
Shortness Ratio (23°C, Viscosity D=20sec <sup>-1</sup> / D=200sec <sup>-1</sup> )	1.35	3.31
Yield Point (23°C, Pa)	4	11
Thixotropy (23°C, Pa•s <sup>-1</sup> )	969	8,329
Ink Density	1.35	1.31

## Advantages with PY 185:

- Stronger reduction of viscosity
- Significant lower yield value and thixotropy in final ink

## Flexo ink based on Paliotol Yellow D 1819 (PY 139)

\*Pigmentation: 16%

	Efka® PX 4703			Market Standard		
	~6%	~12.5%	~19%	~6%	~12.5%	~19%
DaoP						
Viscosity (23°C, D=100sec <sup>-1</sup> , mPas)	684	628	600	749	_1)	_1)
Shortness Ratio (23°C, Viscosity D=20 sec <sup>-1</sup> / D=200sec <sup>-1</sup> )	1.32	1.23	1.17	1.75	_1)	_1)
Yield Point (23°C, Pa)	2	2	2	2	_1)	_1)
Thixotropy (23°C, Pa•s <sup>-1</sup> )	540	19	1	2,435	_1)	_1)
Ink Density	1.22	1.69	1.74	1.15	_1)	_1)

## Advantages with PY 139:

- Strong viscosity reduction
- Low thixotropy and yield value – excellent flow (even in pigment concentrate)
- Improved ink density

-1) No pigment dispersion possible because mill base does not distribute properly on the roller of the three-roll mill

## Contacts

Please contact our technical service department for more help on formulating with products from the dispersing agents product line.

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