



SYNTHRO[®]-PEL FB 494

Modified Water Borne Anionic Polymer as a Fluorine-free and Silicone-free Barrier Agent, compatible with food contact applications

SYNTHRO[®]-PEL FB 494 provides superior barrier properties :

- **Strongly reduced water vapour transmission rate (WVTR).**

With an 8-10g/m² dry coating on the paper, the WVTR measured in tropical conditions (38°C / 90% HR) can reach performance as low as 35 g/m²/24h.

- **Excellent Barrier for water, oil and grease**, to reach maximum hydrophobic and oleophobic performance.

- **Totally tack-free film, yet thermo-sealable**, which makes it useful for specific applications. Addition of **SYNTHRO[®]-SET TS 085** (6-24085) can boost thermo-sealability properties as needed.

A white liquid emulsion insures versatile and easy application possibilities.



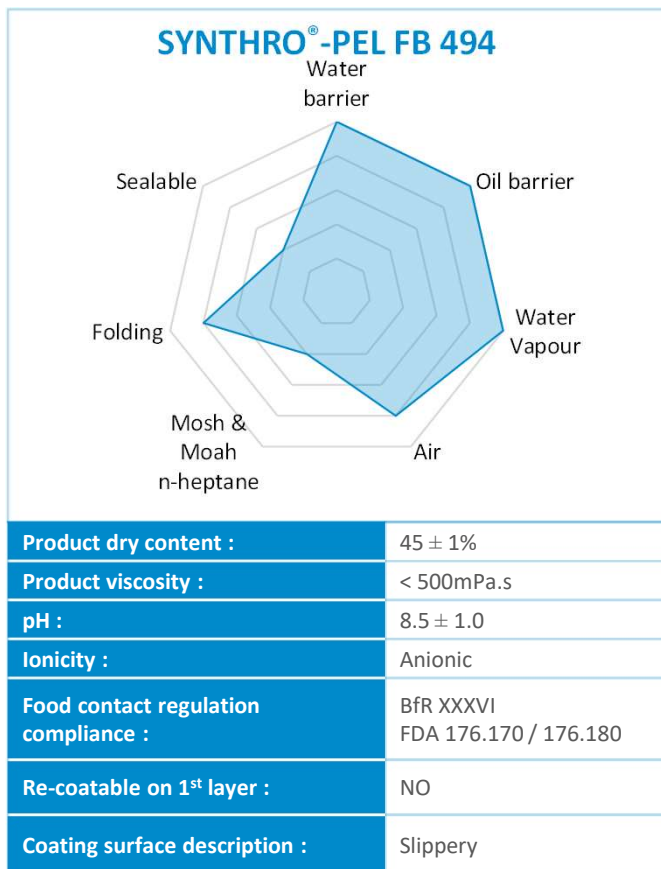
Illustration

Typical performances obtained with **SYNTHRO[®]-PEL FB 494** in a standard coating application on paper :

Coating:	SYNTHRO [®] -PEL FB 494
pH of coating	8.0
Control of the final paper weight	+8-9 g/m ²
Barrier performance	
Cobb₆₀ g/m²: Initial Cobb ₆₀ before coating: 20 g/m ²	0.1
Cobb₁₈₀₀ g/m²:	2.0
KIT test (Untreated paper: 0)	12
WVTR - 38°C/90% - g/(m².24h) : (Untreated paper: ~4000g/m ² /24h)	35
OTR – cc/m²/24h:	11
Thermo-sealable 120°C – 2sec: Dynamometer N/25mm	5.5 N/25mm (2 sealed papers tearing off)



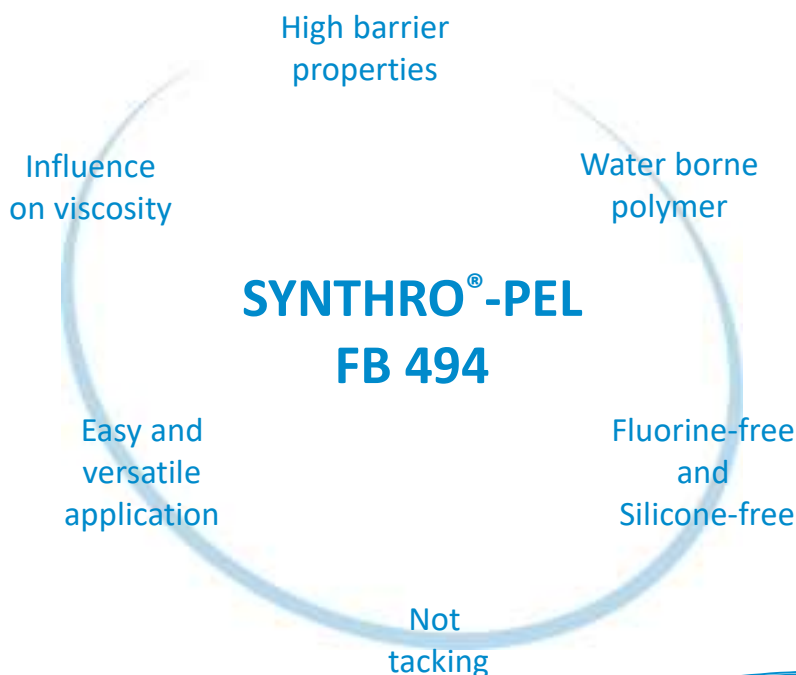
SYNTHRO® -PEL FB 494



SYNTHRO® -PEL FB 494 is a high-performance water, oil, grease and water vapour barrier polymer for paper and paperboard with a good resistance to fold.

SYNTHRO® -PEL FB 494 :

- Excellent water barrier : The film does not “break” when strongly folded; barrier resistance remains intact.
- Excellent oil and grease barrier: **SYNTHRO® -PEL FB 494** can replace the fluorinated resins.
- Outstanding water vapor barrier.
- **SYNTHRO® -PEL FB 494** film is flexible, smooth on surface, not tacky and can be sealed when heated.
- **SYNTHRO® -PEL FB 494** polymer is compliant to: American food contact FDA 176.170 & 176.180, BfR XXXVI recommendations, and to the main ecological labelling.
- **SYNTHRO® -PEL FB 494** emulsion is highly concentrated with a limited viscosity, which allows for an optimal application.
- **SYNTHRO® -PEL FB 494** product code : 6-13494



SYNTHRON

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