

ALPHA foil 508

Special process series for polyolefin films

ALPHA foil 508 series was designed specifically for printing on polyolefin films. Parallel to the development of the PET bottle, labels produced on a synthetic base have been further developed.

These are polyolefin films based on polyethylene (PE) and polypropylene (PP).

The following advantages to paper labels can be mentioned:

- high tear resistance, especially at high moisture
- higher labelling speed
- better optical impression
- broader range of application (e.g. shrink and stretch labels)
- lower weight
- recycling advantages (e.g. easy detachment from PET bottle)
- „no label look“ labels can be produced

Polyolefin films are normally printed in gravure or flexo printing. But offset printing is also an option for label printing when films from 0.4 mm on are used. Offset inks are confronted with two prerequisites

- no mineral oil (to avoid swelling) and
- quick oxidative drying

These two prerequisites are excellently met by ALPHA foil 508.

In addition very good results are also obtained on metalized and cast coated papers. Because of its quick oxidative drying the process series can also be used when fast further processing of the prints is required.

Range of application

Because of its mineral oil free formulation, the process series ALPHA foil 508 is particularly suited for printing on polyolefin films. It can be used with all common types of machines and various fount application systems. In addition very good results are also obtained on metalized and cast coated papers. Because of its quick oxidative drying the process series can also be used when fast further processing of the prints is required.

ALPHA foil 508 is remarkable for its high colour strength and brilliance. The pleasantly soft, flowing consistency is especially printer friendly. Besides the system is remarkable for its high dot sharpness and prints rich in contrast

This printing ink series is formulated mineral oil free, but is not of the "low-migration" type. It is not recommended for the manufacture of food packaging.

Properties

ALPHA foil 508		Fastness properties per ISO 12040 / ISO 2836			
		Light WS	Alcohol	Solvent mixture	Alkali
Yellow	41 AP 508	5	+	+	+
Magenta	42 AP 508	5	+	+	-
Cyan	43 AP 508	8	+	+	+
Black	49 AP 508	8	+	+	+

- especially intense oxidative drying
- mineral oil free
- outstanding rub resistance
- Outstanding nail- and scratch resistance
- Good gloss
- Good pile performance
- High fount solution tolerance
- Quick formation of a stable ink/water balance

Printing auxiliaries

Normally the inks can be used straight from the tin. Should it be necessary, under exceptional circumstances, to adapt the process inks to special printing conditions, additives which are compatible with the mineral oil free binder systems should be used.

We recommend

- to reduce the tack and consistency **Linseed Oil/Printing Oil 10T1405** only
- to speed up the oxidative drying approx. 3 % **INK Active Drier 10T5002**
- as a fount concentrate **HYDROFIX-B 8013 09**

For varnishing specific dispersion varnishes - also for use on films - are available.

Classification

According to the Ordinance on Hazardous Substances: none

According to the Regulation of Flammable Liquids: none

Material Safety Data Sheet available on request. Please refer to the contact of your local supplier.