

EB4160A/EB4160B ethyl acetate solvent base polyurethane adhesive

(widely used in laminating film/film, film/foil and film/METfilm)

Description

EB4160A/B is an ethyl acetate solvent base two-component aromatic polyurethane adhesive with very soft colloid, specializing for film/foil and film/METfilm 100°C boiling resistant packaging ,widely used in laminating of various treated film like PET, NY, AL, PE, CPP, VMPET, etc .

Declaration

OCHEM EB4160A/EB4160B 2-component EA base polyurethane adhesive are in compliance with the positive lists of the following, internationally accepted guidelines for the production of articles intended to come into indirect contact with food stuff.

- EU RoHS directive (EU) 2015/863 amending Annex II to directive 2011/65/EU
- CFR, title 21, § 175.105 of the FDA, Washington D.C., respectively
- Regulation (EC) No 1907/2006 concerning the REACH

Technical Properties

These properties are typical but do not constitute specifications.

Item	EB4160A (OH component)	EB4160B (NCO component)
Type	Main agent	Hardener
Ingredient	Polyester polyol agent	Isocyanate-terminated Polymer
Appearance	Light yellow transparent liquid	Light yellow transparent liquid
Solid Content(%)	60±2	75±2
Viscosity (mPa.s)	3000±1000(25°C)	2500±1250 (20°C)
Solvent	Ethyl acetate	Ethyl acetate
Mix Proportion	20	4
Shelf life	360days	360days

Typical Features:

- Specializing for Aluminum foil laminating with good peeling strength and high transparency, resist to be boiled at 100°C less than 40 minutes.
- With anti-medium, anti-auxiliaries performance like reducing the influence of slip agent.
- High initial and final bonding strength, good flow property, good coating property to the film, the laminated film have good resistance for film-aging, freezing etc

Recommended Operating Conditions

- ◆ Application Cylinder 60-200 line
- ◆ Application solids 20-40% (Recommend 30%)
- ◆ Pot Life Static 8 hours approximately
- ◆ Dynamic 24 hours approximately
- ◆ Dry Coating Weight 3.0-4.0 gsm depending on structure

◆ <u>Drying Section Temperature</u>	50-60°C 60-70°C 70-80°C(three section)
◆ <u>Laminating Temperature</u>	50-80°C
◆ <u>Cure Time</u>	48~96 hours (45-55°C)
◆ <u>Cleaning Solvent</u>	Ethyl Acetate

Mix Ratio By Weight

Solid content(%)	Mix Ratio		Operating Mix Ratio In 20L + 4L Drums Weight		
	EB4160A	EB4160B	EB4260A	EB4260B	Ethyl Acetate(kgs)
35	5	1	20	4	18.8
30	5	1	20	4	26
25	5	1	20	4	36
20	5	1	20	4	50.8

Solvent is ethyl acetate, acetone, MEK, the water content should be less than 0.03%, the alcohol content should be less than 0.02%, Ethyl acetate is recommended.

Precautions

1. The LDPE and CPP films must be corona-treated with a surface tension greater than 38 mN/m. The PA film must be double-corona treated as an intermediate layer. The surface tension must not be less than 52 mN/m; the surface tension of the PET film must not be Less than 52 mN/m.
2. The temperature and humidity of the environment have a great influence on the time for storing the configured adhesive. It is recommended to arrange the adhesive in small quantities for a few times in high temperature and high humidity weather to avoid waste.
3. During the laminating processing, care must be taken to check and control the viscosity.
4. Residual adhesive: The remaining adhesive cannot be used in principle. If the amount of residual liquid is excessive, it shall be sealed and stored in cool place after dilution, which could be used as diluent for operation in next day, and a small amount shall be little by little added to the newly prepared adhesive solution. It cannot be used any more, if it appears cloudy, translucent or thickened.
5. The concentration and additives in the film have an influence on the bonding strength of the laminated film and must be selected before use.
6. Do not mix this product with other adhesives. If necessary, please consult our technical department.
7. Pay attention to fire prevention and static elimination.

Package

Pack in steel drum normally.

Main agent is 20kg/drum. Hardener is 4.5kg/drum.

Safety & Storage

Store in cool, dry, well-ventilated area away from heat and ignition sources . Keep container tightly closed.

Refer to MSDS for more safety information