



Northwest Coatings

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EB Laminating Adhesives

Typical Film Combinations

- ❖ PET (Acrylic treated)
- ❖ LDPE and LLDPE Based Sealant films (corona treated)
- ❖ Aluminum Foil (free of process oils)
- ❖ OPP Films (Free of migratory slip additives)
- ❖ MOPP
- ❖ Nylon
- ❖ Tri-lam structures (i.e. PET/Foil/LDPE)
- ❖ Miscellaneous coex barrier/sealant films.

Bonds Bonds are instantaneous. Destructive bonds in excess of 400 g/in have been attained with a variety of films. It is important for inks and adhesives to interact synergistically. Excellent results have been achieved with commercial solvent based laminating ink systems. Excellent bonds have been achieved as well with certain water based inks.

Cure Speeds Speeds are dependent upon dosage and types of films used although excellent bonds have been achieved with a variety of structures at speeds greater than 1000 fpm using 3 MRads. Typical adhesive weights are 1.0 to 1.5 lbs per 3000 sq feet.

Regulatory Information Northwest Coatings EB adhesives are not yet in compliance with FDA regulations required for use in food and pharmaceutical packaging. Whether or not the structures are suitable or EB adhesives are dependent on the end use and barrier films used in the structure. For example, no migration was detected in a recent study with EVOH based barrier sealant films. Migration of EB components can be detected when the barrier film is LLDPE.

Attributes of EB Laminating Adhesives

- ❖ Fast cure speed
- ❖ Instantaneous bonds
- ❖ Quick turn around time of laminated product
- ❖ Adhesives do not involve mixing; one component
- ❖ 100% solids; no volatile components
- ❖ In line lamination of several structures possible.
- ❖ Ease of clean up
- ❖ Long shelf life stability (6 months to 1 year+)

