



PVDC Coating Division

Asahi Kasei Chemicals Corporation

Asahi Kasei PVDC Resin F310**Solvent-Soluble Barrier Polymer**

- Good oxygen and water vapor barrier, good abrasion and adhesion performance
- Lacquer stability is unaffected by shear, pH, or temperature
- FDA compliance ^(a)

Asahi Kasei PVDC Resin F310 Barrier Polymer is a "general purpose" non-crystalline copolymer providing moderate barrier. Commercial applications include abrasion-resistant binder for magnetic tapes, adhesives, and coatings for detergent boxboard.

Asahi Kasei PVDC Resin F310 Barrier Polymer is a copolymer of vinylidene chloride and acrylonitrile.

Properties	Values ^(b)	
Physical Properties		
Specific Gravity	1.6	
Performance Properties ^(c)		
	Coating Weights	
	2.2 g/m²	4 g/m²
Oxygen Permeance ^(d)	1.5	0.83
Water Vapor Transmission Rate ^(e)	43	20
Water Vapor Transmission Rate ^(f)	2.8	1.3
Minimum Heat Seal Temperature ^(g)	—	130

Processing

Readily applied by a variety of coating procedures including rotogravure, dip, and spray.

Recommended Dissolving Conditions

At 23°C, mix for one hour in 65% methyl ethyl ketone/35% toluene, up to 20% resin solids. The solvent ratios provided are % by weight, and result in clear solutions.

(a) Complies with requirement of FDA for use as a component of articles in contact with food.

(b) Typical property values, not to be construed as specifications.

(c) Tested on PET substrate.

(d) cc/100 sq in/24hrs/atm @ 23°C, 75%RH

(e) g/sq meter/24hrs @ 38°C, 90%RH

(f) g/100 sq in/24hrs@38°C, 90%RH

(g) °C, 1 second dwell, 5 psi