

Coatings & Engineering Materials Division

Phone: +81-3-6253-4147 Fax: +81-3-6253-4271

Effective: 01.July, 2011

PRODUCT INFORMATION

TAKELAC[®] WPB-series

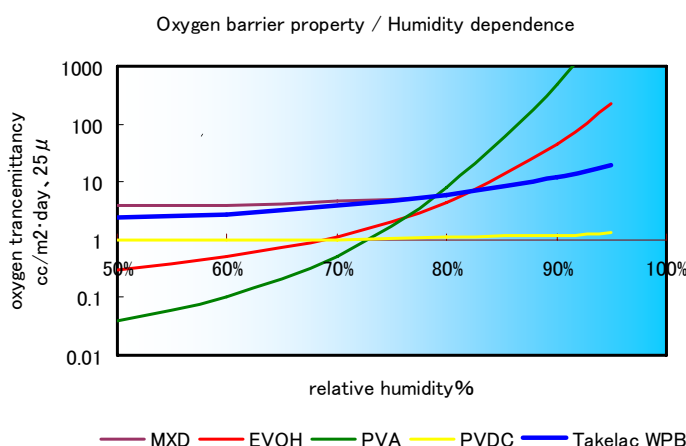
Water-based Polyurethane resins for gas barrier coating

DESCRIPTION

Takelac[®] WPB-series are water-based Polyurethane resins, which gives epoch-making properties. Especially, Takelac[®] WPB-series shows superior oxygen-barrier property, in using for the application of the gas barrier coating.

CHARACTERISTICS

- ◆ Non chlorine based polymer
- ◆ In comparison with vinyl alcohol based resin, the humidity dependence of the O₂ barrier property is excellent.
- ◆ High flexibility and good adhesion with various films and plastics.... the olefine film and PET which was done surface treatment, Nylon, clear-metallized PET...
- ◆ Printable and good lamination on coating side



Typical values and Film properties

Takelac [®]	WPB-341 ^{*)}	WPB-341A ^{*)}
FDA Status	§ 175.105 (Adhesives, Indirect food contact)	
Appearance	Milky-White Liquid	Slight Yellowish-White Liquid
Solids(%)	30	30
pH	8.0	8.0
Viscosity(mPa.s@25)	15	15
Ionicity	Anionic	Anionic
Dry Film Property		
Tg of dry film(°C)	115	115
Tensile strength of dry film (MPa)	40	40
Elongation of dry film (%)	3	3
Gas Barrier Property (3-4g/m² on PET 12 μ mT)		
OTR (20°C80RH%),(cc/m ² ·day)	30	26
MVTR (40°C90RH%),(g/m ² ·day)	46	46

**)These are provided as general information only and are not considered part of the product specifications.*

All information and other data contained in our product descriptions are averages and are given in good faith but without warranty. We cannot accept any liabilities for any damages or losses incurred as a result from the use of our information.

Coatings & Engineering Materials Division

Phone: +81-3-6253-4147 Fax: +81-3-6253-4271

APPLICATION EXAMPLES

Food packaging films*), various industrial films, rust preventive of metals.

NOTE

Please refer to our Material Safety Data Sheet for health and safety information on the product.