Water-Based Polyester Heat Seal Coating

Developed product

GX-1570 • GX-1571

- **Excellent heat sealability** to PET films.
- Supports **mono-material** packaging with PET substrates.
- Formulated only with raw materials listed in **FDA** and **Japan's Positive List System for Food Utensils, Containers, and Packaging**.
- Environmentally friendly, **low-VOC waterborne coating**.
- Applications: food packaging, heat-seal resins, blister packs.

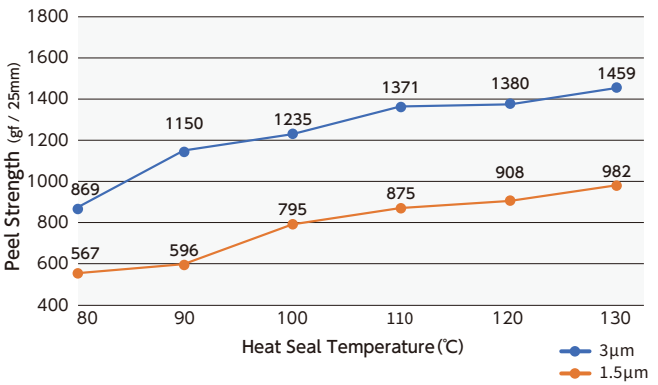
General properties

	GX-1570	GX-1571
Food-related Regulations※	Japan's Positive List System	FDA§175.105 Japan's Positive List System
Appearance	Light bluish-white liquid	Light yellowish-white liquid
Solid content	25%	25%
Solvent	ETB※: 10%　Water: 65%	ETB※: 10%　Water: 65%
pH (10% aq)	5.5～7.5	5.0～7.0
Viscosity (mPa·s/20℃)	About 80 mPa·s	About 40 mPa·s
Tg	22℃	17℃
Acid value (mgKOH/g)	<10	<10
Water resistance	○	○
Hot water resistance	△	△

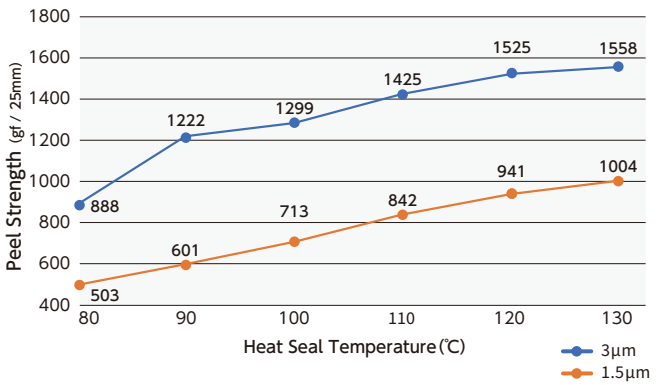
※ Formulated only with raw materials listed in FDA and Japan's Positive List System for Food Utensils, Containers, and Packaging.
※ ETB: Ethylene glycol mono-t-butyl ether. (CAS No.: 7580-85-0)
Water resistance: Immersion in water at 25°C for 24 h.　○: No Change　△: Whitening　×: Dissolution.
Hot water resistance: Immersion in hot water at 80°C for 30 min.　○: No Change　△: Whitening　×: Dissolution.

Heat seal strength

GX-1570



GX-1571



Substrate ····· Untreated biaxially oriented PET film (coated side / uncoated side).
Drying conditions ····· 120 °C × 5 min.
Dry film thickness ····· 1.5 μm, 3 μm.
Heat seal pressure ···· 0.3 MPa × 5 s.