Aqueous polyester resins
PLAS COAT series

	Solid content (wt %)	Viscosity (mPa·s/20℃)	pH (10%aq)	Solvents	Tg (℃)	Softening point (℃)	Acid value (mgKOH/g)	Refractive index	Japan's Positive List System
Non solvent grade (-SO_3Na)									
Z-221	20	5	5.5	Water	47	135～140	<5	1.56	○
Z-446	25	25	6.0	Water	47	115～125	<5	1.56	○
Z-561	25	15	6.0	Water	64	170～175	<5	1.57	○
Water-based solvent grade (-SO_3Na)									
Z-565	25	15	7.0	Water+ETB	64	170～175	<5	1.57	○
Z-880	25	50	6.5	Water+ETB	20	85～95	<5	1.54	○
Z-3310	25	300	6.0	Water+ETB	-20	70～80	<5	1.53	○
RZ-105	25	70	6.0	Water+ETB	52	130～135	<5	1.56	○
RZ-570	25	50	6.0	Water+ETB	60	160～170	<5	1.57	○
High acid value grade (-COOH)									
Z-730	25	10	7.5	Water+IPA(0～0.9%)	46	80～85	40～60	1.55	○
Z-760	25	10	7.5	Water+ETB	52	90～105	40～55	1.56	○
PEN grade (Naphthalene included, -SO_3Na)									
Z-592	25	40	6.5	Water+ETB	40	140～160	<5	1.59	○
Z-687	25	80	6.0	Water	110	185～200	<5	1.61	○
Z-690	25	20	6.5	Water+ETB	110	185～205	<5	1.62	○

Application examples

- Protective film that can be peeled off with water / warm water
- Water-based ink / paint binders and additives

Application examples

- Primer for PET film
- Antistatic (PEDOT, CNT, etc.) binder

*ETB: Ethylene glycol mono-tert-butyl ether
CAS No: 7580-85-0

Application examples

- Primer for PET film
- Water-based ink / paint binders and additives
- Improved water resistance and solvent resistance when used with water-based crosslinking agent

*IPA: 2-propanol (CAS No: 67-63-0)

Application examples

- Primer for optical film

*Formulated only with raw materials listed in Japan's Positive List System for Food Utensils, Containers, and Packaging.

	Molecular weight	Water resistance		Solvent resistance				
		Water	Hot water	Toluene	MEK	Ethyl acetate	Ethanol	Hexane
Z-221	14,000	×	×	○	○	○	○	○
Z-446	16,000	△	×	○	△	△	○	○
Z-561	27,000	△	×	○	○	○	○	○
Z-565	25,000	○	△	○	△	△	○	○
Z-880	15,000	○	△	×	×	×	○	○
Z-3310	15,000	○	△	×	×	×	○	○
RZ-105	16,000	○	×	△	△	△	○	○
RZ-570	23,000	○	△	△	△	△	○	○
Z-730	3,000	○(○*)	×(○*)	×(○*)	×(△*)	×(△*)	△(○*)	○(○*)
Z-760	3,000	○(○*)	△(○*)	×(○*)	×(△*)	×(△*)	○(○*)	○(○*)
Z-592	26,000	○	△	×	×	×	○	○
Z-687	26,000	○	△	○	○	○	○	○
Z-690	28,000	○	△	△	△	△	○	○

*Using aqueous cross-linking agent (oxazoline type.)