

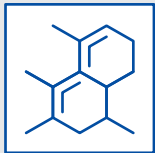


HITHANE™
for printing inks

Innovative polyurethane
ink binder solutions
for printing inks

SONGWON – Long-standing expertise in printing ink technology for flexible packaging

Wide range of ink binders



Suitable for gravure and flexographic printing inks used in plastic film packaging

Cutting-edge quality

EHS standards met

Comprehensive technical knowhow



Dedicated ink binder testing laboratory in South Korea

Technically advanced, customized printing ink formulations

Proven reliability



More than 35 years manufacturing experience in South Korea

Backward integration into polyester polyol production

Global sales organization channels in Asia, Europe and North America

Strong commitment



Continuous innovation to meet new industry standards

HI-THANE™ ink binders are suitable for the formulation of high quality printing inks and generate significant value for printing ink and packaging film producers...

... Their excellent bonding strength on various plastic films, especially PET, nylon and OPP enhances the quality of printed flexible packaging.

... Their outstanding heat resistance allows use in both retortable and non retortable flexible packaging laminates.

... Their low viscosity helps to boost the color strength of printing inks.

... Their excellent anti-blocking properties help to prevent film layers sticking to one another, optimizing productivity.

... Their high re-solubility prevents scale formation in gravure printing cylinder cells, improving print quality and reducing maintenance.

HI-THANE™ ink binders recommended for gravure and flexographic printing inks

	HI-THANE™ A-890L	HI-THANE™ A-9034H2	HI-THANE™ A-9035H5	HI-THANE™ A-9107T	HI-THANE™ A-9135T
Application	Gravure printing ink	Gravure printing ink	Gravure printing ink	Gravure & Flexo printing ink	Gravure & Flexo printing ink
Type	Aliphatic Non tin	Aliphatic Non tin	Aliphatic Non tin	Aliphatic Non tin	Aliphatic Non tin
Appearance	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish
Total solid content (%) (w/w)	30	50	50	35	40
Viscosity (25°C, cps)	400 ~ 700	15,000 ~ 20,000	40,000 ~ 60,000	2,000 ~ 4,000	2,000 ~ 4,000
Solvent	EA/IPA ratio 75/25	EA/IPA ratio 70/30	EA/IPA ratio 72/28	NP-OH/NPAC ratio 30/70	ET-OH

Key attributes of HI-THANE™ ink binders

	HI-THANE™ A-890L	HI-THANE™ A-9034H2	HI-THANE™ A-9035H5	HI-THANE™ A-9107T	HI-THANE™ A-9135T
Bonding strength	Excellent	Excellent	Excellent	Excellent	Excellent
Suitability for retorting applications	Good	Good	Very good	Good	Good
Suitability for pigment grinding	Good	Good	Good	Good	Good
Color strength	Very good	Very good	Very good	Very good	Excellent
Anti-blocking properties	Good	Very good	Very good	Very good	Excellent

HI-THANE™ ink binders can be used in combination with the hardener HI-THANE™ CA-40B, especially in white printing ink formulations. The hardener contributes to increase the adhesion of printing inks onto the plastic films after the packaging film lamination process.

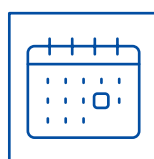
Storage conditions



HI-THANE™ ink binders should be stored indoors, in closed containers, in a dry place at temperatures between 5 and 40°C.

Exposure to direct sunlight should be avoided.

Shelf life



HI-THANE™ products are stable for 6 months, provided they are stored under the above conditions.



For further information, please contact:

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SONGWON provides customers with warranties and representations as to the chemical or technical specifications, compositions and/or the suitability for use for any particular purpose exclusively in individual written agreements.

The facts and figures contained herein have been carefully compiled to the best of SONGWON's knowledge but are essentially intended for informational purposes only.

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It's all about **the chemistry**[®]

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