Casathane® 920

Thermoplastic Polyurethane

Outstanding Flexibility and Compatibility

Excellent Print Performance and Adhesion

UK Manufacture, integrated global supply network

Product Description

Casathane® 920 is a non-reactive polyurethane solution specifically designed for use with nitrocellulose in flexographic and gravure inks. It offers excellent film flexibility, high resistance to water and grease, and outstanding adhesion on various flexible substrates. Its low odour and excellent compatibility with alcohols and esters make it ideal for high-performance packaging applications

Applications

- Flexo and gravure printing inks: Strong adhesion, low odour and safe handling profile
- High-performance nitrocellulose-based inks: Enhanced flexibility and resistance to water and oils
- Industrial packaging: Excellent blocking resistance and durability
- Alcohol/ester-based ink formulations: High compatibility with wide solvent blends

Features and Benefits

- Contains 75% solids in ethyl acetate for concentrated performance
- Low odour formulation ideal for packaging-sensitive applications
- Compatible with nitrocellulose and acrylics (confirmed by resin compatibility testing)
- Provides tough, clear films with minimal tack and excellent flexibility
- Promotes low migration and good compliance with indirect food contact norms
- Energy independent as a result of our on-site anaerobic digestion facility
- Trusted partner- celebrating 100 years of chemical manufacturing in 2026
- Global network of sales offices, direct logistics and US and UK formulating production centres ensuring security of supply and short lead times from stock.

Mode of Action

Casathane® 920 forms flexible polymer films that bond strongly to both treated and untreated films, enhancing ink transfer, anchorage, and durability. Acts as a binding matrix for pigments while resisting heat, grease, and solvents.

Selling Specification

Melting Point (R&B) (°C)	100-110
Colour (G)	Max. 1
Solids content (3 hours @ 105°C)	74 to 76
PRS Viscosity @ 25°C (poise)	5 to 15

Committed to Responsible Care

Thomas Swan
Coating & Resin Technologies

Casathane® 920

Physical and Chemical Properties

Flash Point	-4 °C
Boiling Point	77 °C
Form	Solid
Colour	Colourless

Packaging
200 litre capacity tight-head, lacquer lined, non-returnable steel drums.

Shelf Life
Store under cool, dry conditions. It is recommended that the material be used within 12 months of certification.

Handling
Casathane® 920 is a flammable liquid. Store in cool, well-ventilated areas away from ignition sources. Use PPE when handling. Refer to the Safety Data Sheet (SDS) for full health and safety information.

Guidelines for Use
Casathane® 920 typical usage level: 5–15% in ink systems, depending on desired flexibility and adhesion.
Solvent blend recommendation: Alcohol and ester mixtures (e.g. ethanol/ethyl acetate).
Pigment compatibility: Excellent with organic and inorganic pigment dispersions.
Mixing: Stir thoroughly before use; blend with nitrocellulose under controlled temperature to avoid viscosity drift.

Inventory Status
Casathane® products are classified as polymers and are typically exempt from registration under global chemical regulations such as REACH (EC 1907/2006), UK REACH, KKDIK, and TSCA. Regional regulatory requirements may differ—please consult us to confirm compliance in your intended market.

Limited Liability Information: The information contained herein is offered in good faith and is believed to be accurate at the time of printing. This information should not be used as a substitute for your own quality control and/or testing procedures to ensure that our products are safe, effective and fully satisfactory for the intended end use. Product use may be limited by regional and or regulatory restrictions. Customers are responsible for checking to ensure compliance with local regulations in countries where products are to be placed on the market. Thomas Swan does not accept liability for non-compliant products placed on the market in breach of local regulations.

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