Casathane® 922

Thermoplastic Polyurethane

- Excellent Compatibility with nitrocellulose and esters
- Outstanding adhesion to treated polyolefins
- UK Manufacture, integrated global supply network

Product Description

Casathane® 922 is a non-reactive urethane solution polymer designed specifically for use with nitrocellulose in flexographic and gravure inks for flexible packaging. It offers excellent compatibility with alcohols and esters, enabling high-performance ink systems with low odour and hard film characteristics.

Applications

- Flexographic & Gravure inks for flexible packaging: excellent for high-speed printing with rapid solvent release and good scuff resistance
- Food & hygiene packaging: idea for low odour profile and resistance to grease and moisture
- Overprint varnishes & laminating inks: Increase bond strength and clarity in multilayer packaging

Features and Benefits

- Low viscosity for easy processing
- Completely soluble in esters and alcohols for flexible reduction
- Forms hard, glossy films with low blocking tendencies
- Excellent adhesion to a broad range of plastic substrates
- Low odour ink systems suitable for packaging
- Compatible with nitrocellulose, acrylics, and some PVBs
- Suitable for flexographic and gravure applications
- 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® 922 serves as the primary binder in ink systems, promoting cohesive film formation, enhancing substrate adhesion and providing surface resistance to mechanical and chemical challenges during use and storage.

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

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Physical and Chemical Properties

Flash Point	Below 21 °C
Solids Content	75%
Isocyanate Value	0%
Viscosity (Brookfield; 25°C)	5 - 15 Poises

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® 922 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
Solvent Reduction: Recommended to dilute with alcohols (e.g. ethanol, IPA) or esters (ethyl acetate) depending on system requirements.

Pigment Dispersion: Typically dispersed with NC or compatible polyamides prior to adding Casathane® 922.
Formulation Tip: Blend with NC resins at 1:1 to 2:1 ratios for enhanced hardness and printability.
Substrate Preparation: Use with pre-treated films (corona/plasma) to ensure optimum adhesion.

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.

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