



Description

SIROPOL® 3700 resin is medium viscosity, non-promoted resin, non-thixotropic, high reactive, isophthalic/NPG-based polyester resin dissolved in styrene monomers.

SIROPOL® 3700 is recommended for all types of injection or compressed molding. The resin is thickenable and can be used in sheet molding compound (SMC) and bulk molding compound (BMC).

SIROPOL® 3700 provides excellent weathering performance and is process-friendly for use in pultrusion operations. This resin can be used in UV resistant pultrusion parts, such as exterior shapes, cable trays and ladder rails.

The raw materials used in the manufacture of this resin are listed as acceptable in FDA regulation Title 21 CFR 177.2420 for repeated use in contact with food subject to user's compliance with the prescribed limitations of that regulation.

Performance

- Thickenable
- High reactivity
- Good detergent resistance



Viscosity and Gel-times can be adjusted to meet conditions that customers may require.

Typical* Liquid Resin Properties @25 °C

Percent Solids, %	60 – 65
Viscosity - Brookfield, cps	1000 – 1200
Color	Clear Yellowish
Acid Value	11 – 15
Specific Gravity	1.05 ± .02
Flash Point Range, °C	33

* Typical Values: Based on material tested in our laboratories but varies from sample to sample. Typical values should not be constructed as guaranteed analysis on any specification items.



Typical Performance Data (For Guidance only)
Typical Curing Characteristics

SPI Gel-time @82 °C (1.0% BPO crystal)

Gel-time	Peak Exothermic	Peak Exotherm Time
10 – 20 min	< 200 °C	30 – 40 min


100g resin @25 °C, (Cup method)

Cobalt 6%	Butanox M-60	Temperature	Gel-time	Peak Exothermic
0.2%	1.0 %	25 °C	20 – 30 min	180 ± 20 °C

Typical Physical Properties of Cured Castings @25 °C

Test	Unit	Results
Deflection temperature	°C	148
Tensile Modulus,	ksi	530
Tensile Strength	psi	10000
Elongation at break %	%	2.4
Flexural Strength	psi	16300
Flexural Modulus,	ksi	520

* Typical Values, based on material tested in our laboratories. Typical values should not be construed as a guaranteed analysis of any specific lot, or as a specification of the product.

 Based upon 3 mm unreinforced castings cured with 1% Cobalt 1% and 1% MEKP (active oxygen of 9%).

Standard Packaging 25 ton tank truck, 220 KGs Standard Steel Drums

Dot Label Required Flammable Liquid

Certificates and Approvals The manufacturing, quality control and distribution of the products, by Saudi Industrial Resins comply with;

ISO 9001:2015 and ISO 14001:2015, rules and regulations for classification of special service craft.



Handling

SIROPOL® 3700 resins contain ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

Saudi Industrial Resins Ltd maintains Material Safety Data Sheets for all of its products. Material Safety Data Sheets contain health and safety information, for development by users of appropriate product handling procedures, to protect employees and customers.

Our **MSDS** should be read and understood by all supervisory personnel and employees, before using SIR`s products in your facilities.

Recommended Storage

Drums

Store at temperatures below 25°C. Storage life decreases with increasing storage temperature. Avoid exposure to heat sources, such as direct sunlight or steam pipes. Keep containers sealed to prevent moisture pickup and monomer loss. Rotate stock.

Bulk

Store in stainless steel tanks or tanks lined with epoxy or phenolic coatings. Observe precautions against heat and moisture (see above). An oxygen or dry air spurge may be desirable to keep inhibitors activated. Store at temperature below 25°C.

Commercial Warranty

When stored in accordance with the above conditions, Saudi Industrial Resins warrants this product to remain within specifications for three months from the date of shipment. All things being equal, higher temperature will reduce product stability; lower storage temperature will extend product stability.

Notice: S.I.R. makes no warranty or representation as to the suitability of the product as specified herein for any particular application. The determination of the suitability of the above specification for any particular use is solely the responsibility of the user. All precautionary labels and notices should be read and understood by all supervisory personnel and employees before using. Consult S.I.R. and OSHA regulations for additional safety and health information. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product. Special attention should be given to consumer applications. Freedom to use any patent owned by S.I.R. or others is not to be inferred from any statement contained herein.