

الشركة السعودية للراتجات الصناعية المحدودة Saudi Industrial Resins Limited

س.ت 4030011854 - رقم العضوية 3275 جدة - رأس المال 50.000.000 مليون ريال (مدفوع بالكامل)
CR 4030011854 CC 3275 Jeddah Capital SR 50 000 000 Fully Paid

TECHNICAL DATA SHEET

SIROPOL 1970 - P

DESCRIPTION: SIROPOL 1970-P is low viscosity, promoted halogenated, flame-retardant polyester resin. 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:

- Excellent corrosion resistance
- High Heat resistance, gases and vapors to 350 °F
- Excellent strength retention at elevated temperatures
- Good flame retardancy

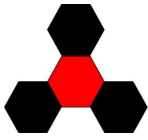
SUGGESTED USES: SIROPOL 1970-P resin can be used with hand lay-up, spray-up, and filament winding and had lay-up tanks, pipes pumps, stacks scrubbers and other equipment handling highly corrosive gases, vapors or liquids.

TYPICAL *LIQUID RESIN PROPERTIES (25 °C)

Percent Solids	50 – 52%
Monomer	Styrene
Viscosity - Brookfield, cps spindle 2@ 30 rpm	70 - 90
Appearance	Pink
Acid Value(as it is)	20 - 27
Pounds per Gallon	9.5
Flash Point Range, °F	73 - 100



SIROPOL 1970-P polyester resin will burn if provided with a sufficient amount of heat and oxygen. The degree of flame retardancy of the cured polyester resin is characterized by the ASTM E-84 tunnel test. This test is performed under strictly controlled conditions where a flame spread rating is assigned according to comparisons with test set-point materials. The behavior of the cured composite under these controlled conditions can vary from an actual fire situation.



الشركة السعودية للراتجات الصناعية المحدودة
Saudi Industrial Resins Limited

س.ر.ت 4030011854 - رقم العضوية 3275 جدة - رأس المال 50.000.000 مليون ريال (مدفوع بالكامل)
CR 4030011854 CC 3275 Jeddah Capital SR 50 000 000 Fully Paid

TECHNICAL DATA SHEET

SIROPOL 1970 - P

(Continued)

TYPICAL PERFORMANCE DATA

(For guidance only)

TYPICAL CURING CHARACTERISTICS at 25 °C:

Cobalt 6 %	Butanox M-50	Gel Time Minutes	Time to 1st Barcol, hours	Barcol after 24 hours
--	1.0 %	15 - 25	3	40

TYPICAL PHYSICAL PROPERTIES OF CURED CASTINGS² AT 77°F (25°C)

TEST	VALUE	TEST METHOD
Baracol Hardness	40	ASTM D-2583
Tensile Strength, psi	5,500	ASTM D-638
Tensile Modulus, psi x 10 ⁵	5.1	ASTM D-638
Tensile Elongation %	1.1	ASTM D-638
Flexural Strength, psi	10,000	ASTM D-790
Flexural Modulus, psi x 10 ⁵	5.5	ASTM D-790
Heat Distortion Temperature, °C (°F)	140 (284)	ASTM D-648



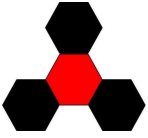
Catalyzed with 1% BPO, cured two hours at 160°F then one hour at 200°F, post cured two hours at 280°F. Organic Peroxide Division, Atochem North America, Inc.

* **Typical Values:** (Based on material tested in our laboratories but variable from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items).

STANDARD PACKAGE: 30- Ton tank truck, 220 Kgs Standard Steel Drums

DOT LABEL REQUIRED: Flammable Liquid

CODE: N/A



الشركة السعودية للراتجات الصناعية المحدودة Saudi Industrial Resins Limited

س.ت 4030011854 - رقم العضوية 3275 جدة - رأس المال 50.000.000 مليون ريال (مدفوع بالكامل)
CR 4030011854 CC 3275 Jeddah Capital SR 50 000 000 Fully Paid

TECHNICAL DATA SHEET

SIROPOL 1970 - P

(Continued)

HANDLING: SIROPOL 1970-P resin contains 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 on all of its products. Material Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers.

OUR MSDS: should be read and understood by all of your 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.

COMMERICAL 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.