

**TECHNICAL DATA SHEET**

**SIROPOL 7440**

**RESILIENT ISOPHTHALIC POLYESTER RESIN**

**DESCRIPTION:** SIROPOL 7440 resin is medium viscosity, excellent fiber wet-out and resilient 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:**

- Good corrosion resistance
- High impact strength
- Excellent crack and craze resistance
- High tensile elongation
- Excellent wet out

**SUGGESTED USES:**

SIROPOL 7440 resin is used for filament winding, hand lay-up and spray-up, and formulated Isophthalic Gelcoats.

**ALTERNATIVE PRODUCTS:** SIROPOL 7440 is a base resin, can be modified by inclusion of thixotrope, and can be promoted with Cobalt to customers required levels.



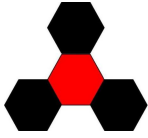
VISCOSITY and Gel Times can be adjusted to meet conditions that customers may require.

**TYPICAL \*LIQUID RESIN PROPERTIES (25 °C)**

Percent Solids	58 - 60 %
Viscosity - Brookfield, cps spindle 3@ 60 rpm	450 – 500 cps
Monomer	Styrene
Appearance	Clear Yellowish
Acid Value	14 - 19
Specific Gravity	1.04 ± .02
Pounds per Gallon	9.2
Flash Point Range, °C	23 - 38

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

**DOT LABEL REQUIRED:** Flammable Liquid



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

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(Continued)

**TYPICAL PERFORMANCE DATA**

(For guidance only)

**TYPICAL CURING CHARACTERISTICS:**

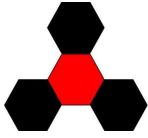
Cobalt 6 %	Butanox M60	Temperature C	Gel Time minutes	Peak Exothermic	Total Time
0.25	1.0 %	25 °C	20 - 24	180 °C	35 – 42 min

**TYPICAL PHYSICAL PROPERTIES OF CURED CASTINGS (25 °C):**

TEST	VALUE	TEST METHOD
Barcol Hardness	40	ASTM D-2583
Tensile Strength, psi	10070	ASTM D-638
Tensile Modulus, psi x 10 <sup>5</sup>	5.1	ASTM D-638
Tensile Elongation , %	4	ASTM D-638
Flexural Strength, psi	18230	ASTM D-790
Flexural Modulus, psi x 10 <sup>5</sup>	5.1	ASTM D-790
Heat Distortion Temperature, °C	80	ASTM D-648



Catalyzed with 1% Butanox M-60, cured at room temperature for 24 hours, post cured two hours at 280°F.



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(Continued)

**HANDLING:** Siropol 7440 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.

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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 ready 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.