

**TECHNICAL DATA SHEET**

**SIROPOL 9227**

**(VINYL ESTER BASED RESIN)**

**DESCRIPTION:** SIROPOL 9227 resin is medium viscosity, un-promoted vinyl ester based 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
- Excellent impact strength
- High tensile elongation
- "FDA" application

**SUGGESTED USES:**

SIROPOL 9227 resin can be used with hand lay-up, spray-up, and filament winding. It can also be used for flake glass and filled lining and coating compounds.

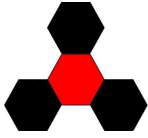
**TYPICAL \*LIQUID RESIN PROPERTIES (25 °C)**

Percent Solids	56.5-58.5 %
Viscosity - Brookfield, cps spindle 3@ 60 rpm	450 - 500 cps
Color	< 4
Acid Value	8 - 18
Specific Gravity	1.10
Pounds per Gallon	9.10
Monomer	Styrene
Flash Point Range, °F	73 - 100

**TYPICAL PERFORMANCE DATA**

(For guidance only)

Cobalt 6%	Luperco ATC Paste	Temperature °C	Gel Time minutes	Peak Exothermic	Total Time minutes
----	2.0 %	25 °C	12 min	370 °F	20 min



الشركة السعودية للراتنجات 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 9227**

(VINYL ESTER BASED RESIN)

(Continued)

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

Property	Units	Value	Test Method
Barcol Hardness	----	35	ASTM D-2583
Tensile Strength	psi	11500	ASTM D-638
Tensile Modulus	psi x 10 <sup>5</sup>	4.8	ASTM D-638
Tensile Elongation at yield	%	4.4	ASTM D-638
Tensile Elongation at break	%	5.5	ASTM D-638
Flexural Strength	psi	23000	ASTM D-790
Flexural Modulus	psi x 10 <sup>5</sup>	5.0	ASTM D-790
Heat Distortion Temperature	°C (°F)	95 (203)	ASTM D-648



*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).*

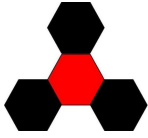
**STANDARD PACKAGE:** 220 Kgs Standard Steel Drums

**DOT LABEL REQUIRED:** Flammable Liquid

**HANDLING:** SIROPOL 9227 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.



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 9227**

VINYL ESTER BASED RESIN

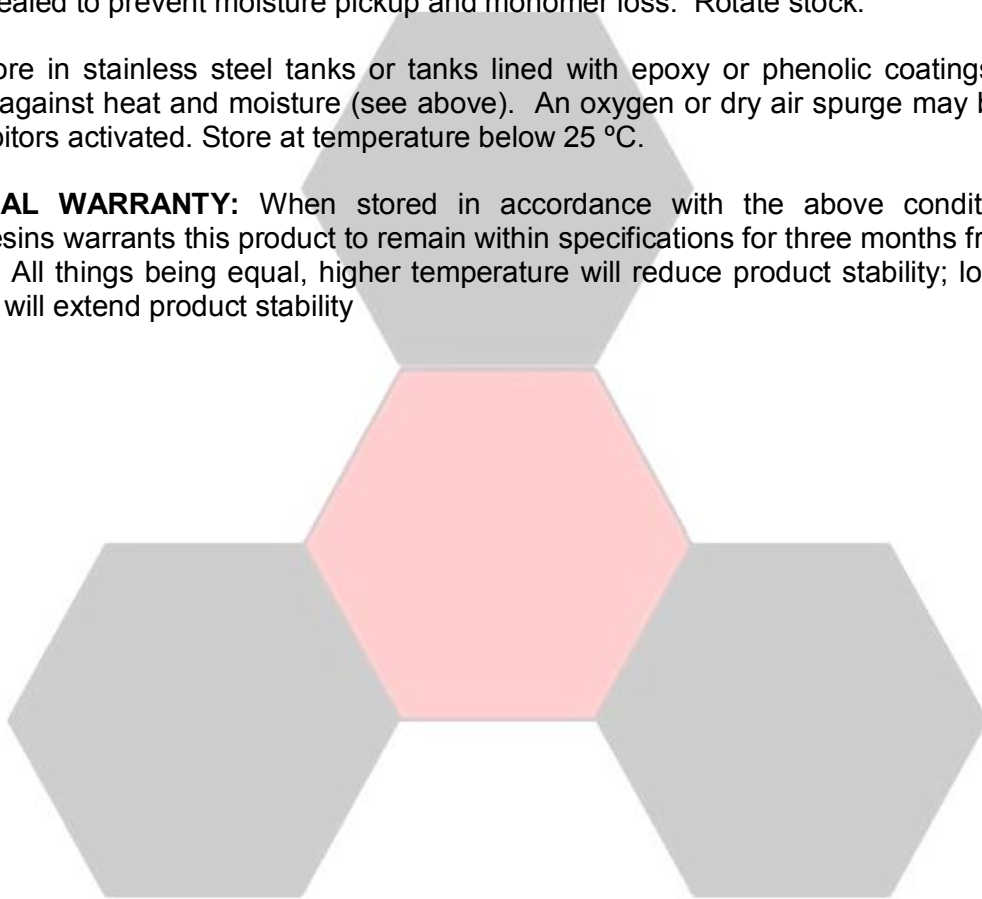
(Continued)

**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 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.