

TECHNICAL DATA SHEET

HETRON* 922 - (Vinyl Ester Resin)

DESCRIPTION: HETRON* 922 resin is a medium viscosity, un-promoted vinyl ester 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
- Excellent impact strength
- High tensile elongation
- "FDA" application

SUGGESTED USES: HETRON* 922 resins 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.

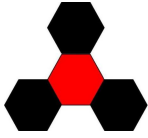
ALTERNATIVE PRODUCTS: HETRON® 980 Vinyl ester resin should be used when higher operating temperatures or greater resistance to organic solvents is needed. HETRON* FR 922 vinyl ester resin provides flame retardancy.

TYPICAL *LIQUID RESIN PROPERTIES 77 °F (25 °C)

Percent Solids	54- 56.5 %
Viscosity - Brookfield, cps	400- 520
Color	Yellowish
Acid Value	20 Max
Pounds per Gallon	8.7
Flash Point Range °F	73-100



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



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:

Gel Time @ 25 °C Bath, (0.3% Co6% + 0.30% DMA + 1.25% HI-90)

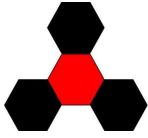
- Gel Time, Minutes 19 - 25
- Total time: 30 - 40
- Peak Exotherm 0F 290 - 355

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

TEST	VALUE	TEST METHOD
Barcol Hardness	30	ASTM D-2583
Tensile Strength, psi	12,500	ASTM D-638
Tensile Modulus, psi x 10 ⁵	4.6	ASTM D-638
Tensile Elongation at yield, %	4.9	ASTM D-638
Tensile Elongation at break, %	6.7	ASTM D-638
Flexural Strength, psi	20,500	ASTM D-790
Flexural Modulus, psi x 10 ⁵	5.0	ASTM D-790
Heat Distortion Temperature, °C (°F)	105 (221)	ASTM D-648



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HANDLING: HETRON* 922 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.

* Hetrion is registered trademark of Ashland Inc.

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.