

**TECHNICAL DATA SHEET**

**SIROPOL 8340-TPWH**  
(Acrylic Resin)

**DESCRIPTION:** SIROPOL 8340-TPWH is an orthophthalic, low reactivity, thixotropic, pre-accelerated, medium viscosity, general purpose, unsaturated 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.

**SUGGESTED USES:**

- Molding
- Casting
- Laminating (Spray or hand lamination)

Water Tanks, Bathtubs, Boats, Portable Toilets, Flower Pots, Chairs

**CHARACTERISTICS:**

- Good adhesion to acrylic
- Improve low styrene emission



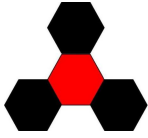
VISCOSITY and Gel Time can be adjusted to meet conditions that customers may require.

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

Percent Solids	56 – 58 %
Viscosity - Brookfield, cps spindle 3@ 60 rpm	500 - 550 cps
Appearance	White
Acid Value	15 - 24
Pounds per Gallon	9.2
Flash Point Range, °C	33

Peak Exotherm (Laminate) 40°C\*  
H.D.T. (LAMINATE) 105°C

\* is a base peak and can be modified to customers' required levels.



# 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

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(Continued)

### TYPICAL PERFORMANCE DATA

(For guidance only)

#### TYPICAL CURING CHARACTERISTICS:

Cobalt 6 %	Butanox M50	Temperature °C	Gel Time minutes	Peak Exothermic	Total Time
---	1.0 %	25 °C	15 - 20 min	350 °F	40 min

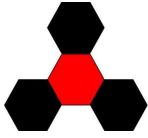
#### TYPICAL PHYSICAL PROPERTIES OF CURED CASTINGS (25 °C):

Property	Unit	Results	Test Method
Water Absorption (7 day value)	mg	33	-----
Barcol Hardness	-	47	ASTM D-2583
Deflection temperature	°C	64	ASTM D-648
Flexural Strength	N/mm <sup>2</sup>	110	ASTM D-790
Tensile Strength	N/mm <sup>2</sup>	70	ASTM D-638
Tensile Elongation %	%	3.8	ASTM D-638
Elongation at maximum stress	%	3.8	ASTM D-638

#### TYPICAL PHYSICAL PROPERTIES OF LAMINATES

Property	Units	Dry Value	Wet Value	Test Method
Water Absorption (7 day value)	mg	27	-----	-----
Tensile Modulus	kN/mm <sup>2</sup>	9.8	7.91	ASTM D-638
Flexural Modulus	kN/mm <sup>2</sup>	7.6	6.6	ASTM D-790
Flexural Strength	N/mm <sup>2</sup>	180	168	ASTM D-790
Tensile Strength	N/mm <sup>2</sup>	94	89	ASTM D-638
Glass Content %	%	27.4	-----	-----

- COEFFICIENT OF THERMAL EXPANSION IN °F 15
- THERMAL CONDUCTIVITY BTU/HR/IN °F 1.7
- DIELECTRIC CONSTANT 4.1
- DIELECTRIC STRENGTH VOLTS/MIL 350



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(Continued)

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

**DOT LABEL REQUIRED:** Flammable Liquid

**HANDLING:** SIROPOL 8340-TPWH 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 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.