



TECHNICAL DATA SHEET

SIROPOL- 8050

FIRE RETARDANT RESIN

DESCRIPTION: SIROPOL 8050 resin is halogenated flame retardant base 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 strength retention at elevated temperatures
- Flame retardancy BS476:Part 7:1997 Class I rating with 5% antimony trioxide
- Flame retardancy ASTM E-84 Class II rating with 5% antimony trioxide

APPLICATION:

- Interior Furniture
- Building Panels
- BS476:Part 7:1997 with 5% Antimony Trioxide
- ASTM E84 with 5% Antimony Trioxide
- ASTM E 162 - 25
- ASTM D 635



Antimony Trioxide is not included in the resin and must be added by customer

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

TYPICAL *LIQUID RESIN PROPERTIES (25 °C)

Percent Styrene	30-40 %
Viscosity - Brookfield, cps spindle 3@ 60 rpm	450 – 550 cps
Gel Time, 25 °C (min)	25 - 30
Cure time (Hrs. De-mold time)	3



For use in fire retardant applications, the catalyzed resin is used liberally to thoroughly wet out each ply of glass mat. Each layer should be worked well with a serrated metal roller to achieve good glass wet out and compaction. Laminates used to any service should be at least 3 mm thick and obtain at least three plies of glass mat 450gm/m² or equivalent.



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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LAMINATE PROPERTIES

TEST	VALUE
Glass Content by Weight	32 %
Tensile Strength, psi	12400
Tensile Modulus, psi x 10 ⁵	11
Tensile Elongation , %	1.9
Flexural Strength, psi	23200
Flexural Modulus, psi x 10 ⁵	9.6
Heat Distortion Temperature,(Resin) °C	80
Heat Distortion Temperature,(Laminate) °C	200
Compressive Strength Psi	22300

FLAME SPREAD RATING

• ASTM E 84	69
• ASTM E 84 (Plus 5% Antimony Oxide)	23.08
• ASTM E 162	45
• ASTM E 162 (Plus 5% Antimony Oxide)	25
• BS476:Part 7	210
• BS476:Part 7 (Plus 5% Antimony Oxide)	75

Laminates will withstand moderate impact and distortion without fracture. Laminates exposed to direct sunlight will tend to yellow slightly unless stabilized with UV screener; however, they will retain their high strength characteristics indefinitely, and will not be prove to stress crazing or checking. Moderate exposure to moisture and water at ambient temperatures will not affect the performance of the laminate.

STANDARD PACKAGE: 220 Kgs Standard Steel Drums

DOT LABEL REQUIRED: Flammable Liquid



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HANDLING: Siropol 8050 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.