



TECHNICAL DATA SHEET

SR Foam

Rigid Polyurethane Foam System

Typical Properties SR Foam A-Comp (ISO)

Viscosity, mPa·s @ 25°C:	150-200
Lbs/gal	10.33
Specific Gravity @ 25°C :	1.24
Appearance @ 25°C:	liquid

Typical Properties SR Foam B-Comp (polyol blend)

Viscosity, mPa·s @ 25°C:	600-800
Lbs/gal	9.73
Specific Gravity @ 25°C :	1.10
Appearance @ 25°C:	viscous liquid

Typical Physical Properties		
Density, pcf	ASTM D-1692	2
Compressive Strength, psi	ASTM D-1621	42
Tensile strength, psi	ASTM D-1623	52
Shear Strength, psi	ASTM C-273	39
Closed Cell Content	ASTM D-2856	97% min
Buoyancy (salt water)	Pcf	59
Buoyancy (fresh water)	Pcf	57
Water Absorption lbs/sq ft	ASTM D-2842	0.017
		0.0003
Air Permeance	ASTM E-2178	L/s/m ²

Product Description:

SR Foam polyurethane, fire retarded* rigid foam systems are designed for molding and void filling applications. SR Foam can be designed to meet a variety of reactivity requirements without sacrificing product quality and can be formulated to a wide range of densities from 1.8 to 6.0 pounds per cubic foot. The unique handling characteristics of the SR Foam series systems provide ease of mixing by hand or machine to produce a uniform product with excellent cell structure. This product does not contain any CFC blowing agent or other Ozone Depleting chemical.

Processing Characteristics @ 74 ° F		
Ratio, By weight A/B		50/50
Cream Time	Sec	70-90
Rise Time	Sec.	450-500
Demold Time	Min.	60

The SR Foam series foam has been formulated for large void filling applications or for the manufacturing of low-density bun stock. The use of a thermocouple or means to determine exotherm is recommended in order to keep peak exotherm below 300 °F. Multiple foam lifts or pours are recommended when using processing equipment requiring 100°F or greater to process the foam. Dynamic mixing equipment run at 70°F will allow lifts of up to 24 inches at one time. Thermal cracking or evidence of any charring or discoloration should be determined prior to any large scale foaming.

*FR versions available, meets ASTM class II requirements.

Storage and Handling:

Containers for both A and B components should be kept tightly closed to prevent moisture contamination. Do not reseal if contamination is suspected. Use of a dry nitrogen blanket for partial drums is recommended. Component B may be stored at ambient temperatures. Storage for Component A should be maintained between 77°F (25°C) and 95°F (35°C). An additional note of caution is that exposure to temperatures over 400°F (204°C) can create excessive pressure potentially causing containers to rupture. Do not breathe aerosol or vapors and avoid contact with skin and eyes. Exposure to vapors of heated MDI can be dangerous. To heat product properly, use well ventilated convection ovens or other methods that distribute heat evenly. Avoid using drum heaters or other heat sources that may cause excessive local heating.

Health and Safety Information:

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling any of the products listed above. Before working with these products, it is your responsibility to read and become familiar with the available information on its hazards, proper use and handling. This is extremely important and cannot be overemphasized. Information is available in several forms, e.g. material safety data sheets and product labels. To obtain this information, contact SR Contractors.