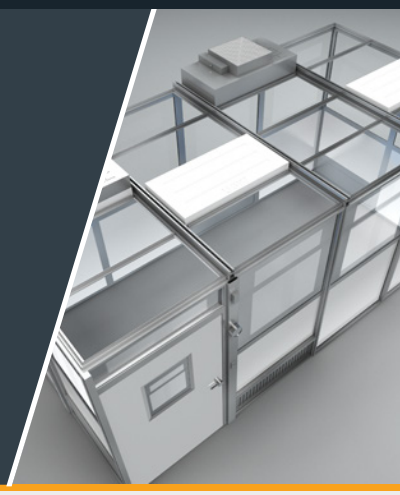
FlexSim™ Vinyl Material



The cost-effective NFPA and ASTM fire-rated vinyl material

FlexSim™ Vinyl from Simplex Cleanrooms by Subzero Engineering was the first domestically made clear vinyl to pass ASTM smoke and flame tests. Unlike standard vinyl, FlexSim™ works to prevent fires or flames from spreading beyond the affected area. In the event of a fire breakout, FlexSim™ Vinyl can help reduce damage and provide safety for equipment and personnel.

In addition to meeting NFPA 76 and ASTM E-84 standards, FlexSim™ Vinyl is specifically formulated to meet U.S. and European requirements for an environmentally friendly PVC. FlexSim™ is available as overlapping strips, overlappingcurtains or in custom sizes to accommodate various workspace applications.

FEATURES & BENEFITS

FEATURES	BENEFITS
· Class 1 fire-rated—meets NFPA 76 and ASTM E-84 standards	· Priced to help meet fire safety requirements, but stay within budget
· Meets U.S. and European requirements for an environmentally friendly material	· Minimal cleaning requirements
· Contains no particulates, plasticizers or phthalates	· Helps meet sustainability goals as an environmentally friendly product
· Available in 40 mil. 12" overlapping strips, 48" overlapping curtains or in a 40 mil. 48" roll for custom sizing	· Can be RF welded into custom widths to create solid walls
· Available in clear	

APPLICATIONS

Engineered with superior durability and see-through clarity, FlexSim™ is a flexible material for strip doors to separate working areas.

FlexSim™ fire-rated curtains are the perfect choice for data center softwall containment.

With minimal cleaning requirements, FlexSim™ softwall panels are ideal in cleanroom enclosures.

SUB ZERO ENGINEERING

Material Specification Sheet
FlexSim™ Vinyl Material

TYPICAL PROPERTIES

CHARACTERISTIC	VALUE
Color	Clear
Durometer Hardness (ASTM D-2240)	85A
Specific Gravity (ASTM D-792)	1.26
Tensile Strength (ASTM D-412)	2950 PSI
Ultimate Elongation (ASTM D-412)	290%
100% Modulus Elongation (ASTM D-412)	1400 PSI
Ultimate Tear PSI (ASTM D-1004)	570 LB/IN

OTHER PROPERTIES

CHARACTERISTIC	VALUE
Brittle Temp (ASTM D-746)	0° F / -17° C
Minimum Operating Temperature	32° F / 0° C
UV Stability (In Sunlight)	Excellent
Flame Test UL 94V0	Pass
Class 1 - Flame Spread (ASTM E-84)	20
Class 1 - Smoke Density (ASTM E-84)	400
NFPA-701-2004 Test Method 2	Pass

MODELS & APPLICATIONS

MODEL #	DESCRIPTION / APPLICATION
40480-FS	40 mil. thick, 48" wide roll - Flexsim Application: Can be welded into various widths to make solid walls.
40484-FS	40 mil. thick, 48" wide, 4" overlaps - FlexSim Application: Curtains; Ideal for applications that cannot have a solid wall.
40122-FS	40 mil. thick, 12" wide, 2" overlaps - FlexSim Application: Strips; Ideal for strip doors or softwall containment

HEALTH & SAFETY

CAUTION!

The material is not to be used for direct, close range viewing of welding arcs; approved eye protection must be worn. Welding curtain material is to be used to house a welding station so incidental viewing of the welding operation can occur.

CAUTION!

When handling any products, read the manufacturers' container labels and the Article Information Sheets (AIS) for important health, safety, and environmental information.

NOTE:

When using any equipment, always follow the manufacturer's instructions for safe operation.

IMPORTANT:

Complete test results for outgassing, anti-static and flame spread available upon request. We believe these tests to be reliable and accurate to the best of our knowledge but cannot warranty for processes and applications beyond our control.

*Typical Properties should be considered representative or typical only and should not be used for specification purposes.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

800-564-0864

World Headquarters
805 South 3600 West, Ste 100
Salt Lake City, UT 84104

subzeroeng.com