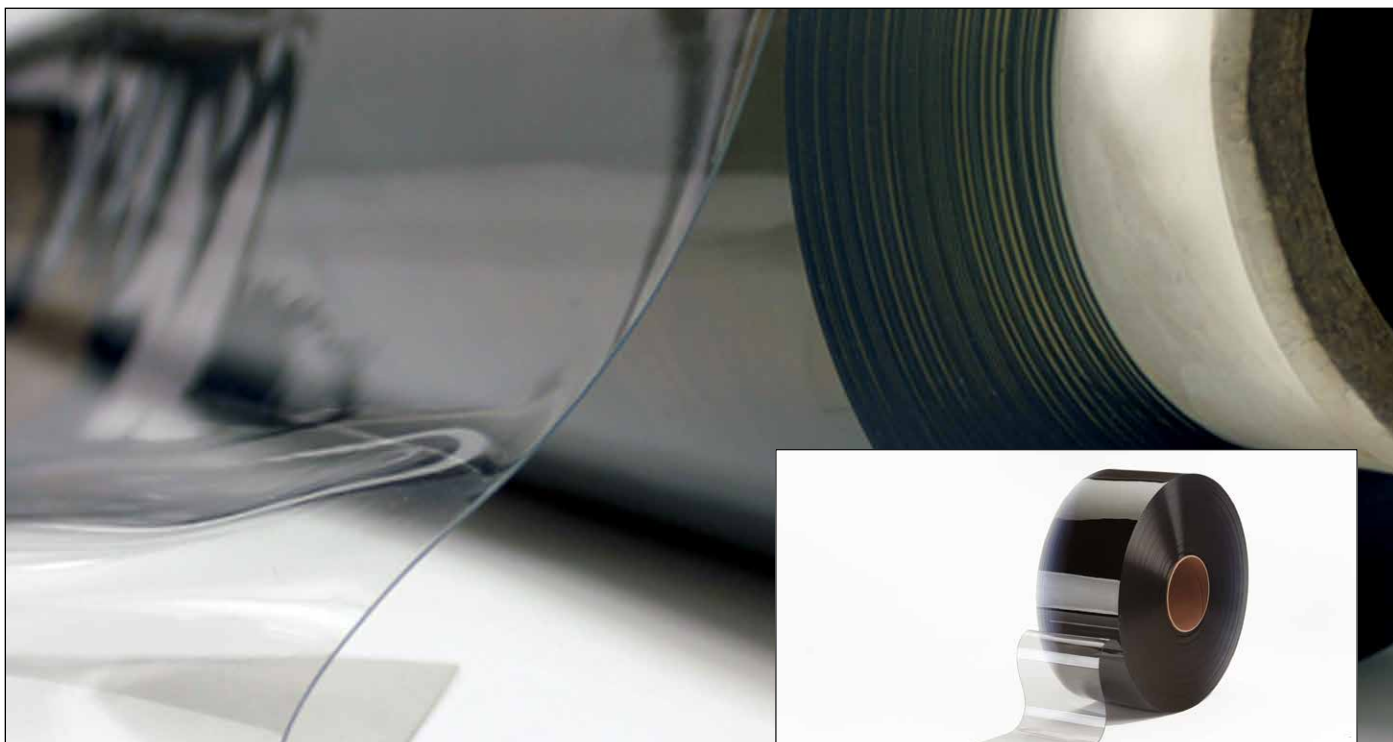# FLEXSIM™
VINYL MATERIAL

THE COST-EFFECTIVE NFPA AND ASTM FIRE-RATED VINYL MATERIAL

FlexSim™ Vinyl from Simplex Isolation Systems 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, overlapping curtains or in custom sizes to accommodate various workspace applications.
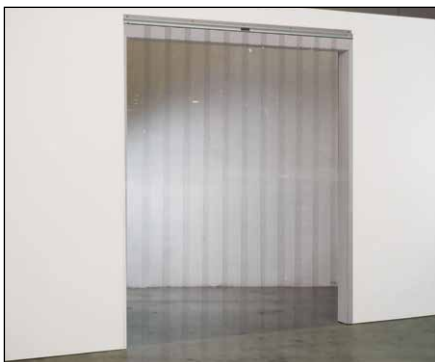

FEATURES:

» Class 1 fire-rated—meets NFPA 76 and ASTM E-84 standards

» Meets U.S. and European requirements for an environmentally friendly material

» Contains no particulates, plasticizers or phthalates

» Available in 40 mil. 12" overlapping strips, 48" overlapping curtains or in a 40 mil. 48" roll for custom sizing

» Available in clear

BENEFITS:

» Priced to help meet fire safety requirements, but stay within budget

» Minimal cleaning requirements

» Helps meet sustainability goals as an environmentally friendly product

» Can be RF welded into custom widths to create solid walls

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.

MATERIAL SPECIFICATIONS & TESTING INFORMATION

PROPERTY	RESULT	ASTM
Color	Clear	
Durometer Hardness	85A	(D-2240)
Specific Gravity	1.26	(D-792)
Brittle Temp	0° F / -17° C	(D-746)
Minimum Operating Temperature	32° F / 0° C	
UV Stability (In Sunlight)	EXCELLENT	
Tensile Strength	2950 PSI	(D-412)
Ultimate Elongation	290%	(D-412)
100% Modulus Elongation	1400 PSI	(D-412)
Ultimate Tear PSI	570 LB/IN	(D-1004)
Flame Test UL 94V0	PASS	
Class 1 - Flame Spread	20	(E-84)
Class 1 - Smoke Density	400	(E-84)
NFPA-701-2004 Test Method 2	PASS	

NOTE: Complete test results for outgassing, anti-static and flame spread available upon request. Simplex Isolation Systems believes these test results to be reliable and accurate but cannot warranty for processes or applications beyond its control.

MODELS & APPLICATIONS

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

SIMPLEX™
A SENNECA COMPANY

WWW.SIMPLEX.IS » **800.854.7951** » **INFO@SIMPLEXIS.NET**