SEKISUI | VOLTEK

Technical Data

Volara® Type AF

PRODUCT DEFINITION

Volara type AF was developed to meet certain federal, military, and industry requiremnets on the flammability of cellular plastics. The data present here shows its performance when tested in accordance with these test methods. It should be understood that laboratory tests do not represent actual fire conditions.

Volara type AF is an irradiation crosslinked polyethylene foam with a continuous smooth surface, fine cell structure, excellent mechanical properties.

HEAT STABILITY UP TO 215°F

ROLL AND SHEET FORM

CUSTOM COLORS AVAILABLE

PRODUCT CHARACTERISTICS

- General purpose foams
- Excellent chemical resistance
- Excellent mechanical properties
- Ideal for gasket applications
- Laminates to 2" available

PRODUCT FORM

Produced both roll and sheet form
Density: 2pcf
Thickness range:
- Rolls: 1/8" to 5/8"
- Sheets: 1/2" to 1.5"

Standard wide is 60" (Other widths are also available)
Standard colors are natural-white and black
- Custom colors are available on request

FLAMMABILITY PROPERTIES

FMVSS-302 Motor Vehicle: PASS
- Horizontal burn rate < 4.0 ipm

FAR 25.853(a): PASS
- Amdt 25-116 App F Part I(a)(1)(ii)
- Vertical <8 in. length <15 sec.

UL94 for Foamed Plastics: 94HF-1
- Horizontal, Ratings: HBF-SE < 1.5 ipm
- HF-1, NBR-0 drips do not ignite

ASTM E-84/2003: 1/8"
- Flame Spread Index: 5
- Smoke Developed Index: 75

APPLICATIONS

Transportation Industry

General Industrial

Industrial Tape

Recreation & Leisure

Packaging Dunnage

Aviation & Aerospace

Medical Tape & Healthcare

Michigan Location

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SEKISUI | VOLTEK PHYSICALLY CROSSLINKED SEKISUI TECHNOLOGY

Fine-celled, Irradiation cross-linked, Polyolefin Foam

Volara® AF

TYPICAL PROPERTIES OF **VOLARA AF**		
	2AF .125"	4 AF .125"
Compression Strength , PSI		
(lb / sq-in) @ 25% deflection	5	10
(lb / sq-in) @ 50% deflection	14	21
Tensile Strength, PSI		
(lb / sq-in) Machine Direction	59	126
(lb / sq-in) Cross-Machine Direction	34	83
Tensile Elongation		
(%) Machine Direction	111	177
(%) Cross-Machine Direction	96	119
Tear Resistance		
(lb / in) Machine Direction	6	16
(lb / in) Cross-Machine Direction	11	24
Compression Set		
% Original Thickness	33	23
Thermal Stability		
AVE MD% 24 hrs @ 158°F dimensional change	-1.3	-0.97
AVE CD% 24 hrs @ 158°F maximum, no load	-0.8	-0.43

February, 2017

NOTE:

This data represented on this technical data sheet should be used as a guideline for product selection. This data is not intended to represent, replace or be used as a proxy for a specific productsales specification. The physical properties are averages based on limited production runs and are subject to change as additional data becomes available.

SEKISUI | VOLTEK PHYSICALLY CROSSLINKED SEKISUI TECHNOLOGY