

type AF

Product Definition

Volara Type AF was developed to meet certain federal, military, and industry requirements 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, combined with certain fire retardant properties. Standard colors are white, black, and charcoal.

Typical Properties

Property	Machine Direction	Average 2AF .125"
Compression Strength, psi (ASTM D3575)		
@ 25% deflection	—	4
@ 50% deflection	—	13
Compression Set (ASTM D3575) % of original thickness	—	33
Tensile Strength, psi (ASTM D3575)	M CM	60 31
Elongation To Break (%) (ASTM D3575)	M CM	103 80
Tear Resistance, lbs/inch (ASTM D3575)	M CM	5 11
Thermal Stability, % linear dimensional change, maximum, no load	M 24 hrs @158°F CM 24 hrs @158°F	-1.5 -1.0
M = Machine direction CM = Cross-machine direction		

Product Form

- Volara Type AF is produced in both roll and sheet form.
- Volara Type AF is produced in a 2 pcf density
- Thickness Range: Rolls: 1/8" to 5/8" and Sheets: 1/2" to 1.5"
- Standard width is 60". (other widths also available)



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Flammability Properties - Volara Type AF Federal Standards

<u>Number</u>	<u>Criterion</u>	<u>Type A</u>	<u>Type AF</u>
FMVSS-302 Motor Vehicle	Horizontal burn rate <4.0 ipm	Pass (if 5/16" & thicker)	Pass
FAR 25.853b Aircraft	Vertical <8 in. length <15 sec. Drips <5 sec.	Fail	Pass

Other Laboratory Tests

UL94 for Foamed Plastics	Horizontal, Ratings: HBF-SE <1.5 ipm HF-1 NBR-0 drips do not ignite cotton HF-2 NBR drips ignite cotton	Not SE	94HF-1
ASTM E-84/2003	Flame Spread Index Smoke Developed Index		<u>1/8"</u> 5 75

This information on Volara irradiation crosslinked polyethylene foam is presented to our best knowledge. All test data are average values unless stated and should be considered as guidelines to the performance of this product and should not be used as specifications.