

type AS

Product Definition

Volara Type AS is an enhanced flexible closed-cell polyethylene foam that is crosslinked by means of a unique electron irradiation process. This results in a continuous smooth surface foam material with a fine cell structure and excellent mechanical properties. Volara Type AS also has enhanced vacuum forming capabilities. Standard colors are natural, black, and charcoal.

Product Characteristics

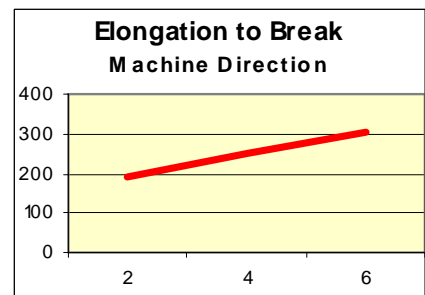
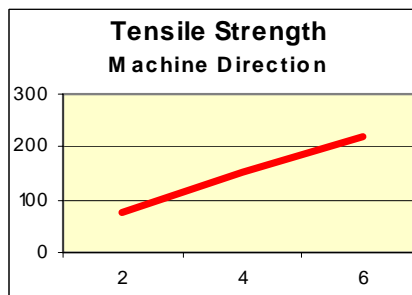
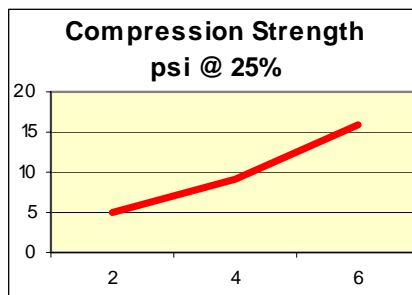
- Deep draw vacuum forming capabilities
- Good mechanical properties at low densities
- Low water absorption and vapor transmission
- Superior heat stability
- Excellent chemical resistance
- Smooth aesthetically pleasing surface
- High tensile and tear strength

Volara Type AS can be laminated, embossed, thermoformed, die cut, sewn, printed, and pressure sensitive adhesive coated.

Product Form

- Volara Type AS is produced in both roll and sheet form.
- Standard width is 60".
- Standard thicknesses are as follows:

Density	Thickness Range
2 pcf	Rolls: 1/8" to 3/8" Sheets: 3/8" to 1.5"
4 pcf	Rolls: 1/16" to 1/4"
6 pcf	Rolls: 1/32" to 1/8"



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Typical Properties of Volara Type AS

<u>Property</u>	<u>Units</u>	<u>Direction</u>	<u>2 pcf</u>	<u>4 pcf</u>	<u>6 pcf</u>
Density	pcf	—	1.8-2.2	3.6-4.4	5.4-6.6
Compression Strength (ASTM D3575)	psi @ 25%	—	5	9	16
	psi @ 50%	—	12	20	30
Tensile Strength (ASTM D3575)	psi	M	78	151	219
		CM	59	120	181
Elongation To Break (ASTM D3575)	%	M	194	251	305
		CM	212	277	327
Tear Resistance (ASTM D3575)	lbs/inch	M	13	26	39
		CM	13	30	43
Compression Set (ASTM D3575)	% of original thickness	—	30	17	13
Thermal Stability 3 hours @ 180°F	%	M	-2.3	-1.8	-1.5
		CM	-1.6	-1.1	-0.9
Thermal Conductivity K Factor @ 70°F BTU/(hr)(ft ²)(°F/in) R Factor - Thickness/K Factor		—	0.25	0.30	0.32
Water Absorption (ASTM D-1667)	lbs/sq.ft. of cut surface	—	0.04	0.04	0.04

M = Machine direction
CM = Cross-machine direction

- = Indicates shrinkage
+ = Indicates expansion

Note: These materials are experimental and their physical properties are subject to change.

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.