type EO

Product Definition

Volara Type EO is a flexible closed-cell polyethylene EVA copolymer 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 EO can be produced in pure white or a variety of colors. Standard colors are white, black, charcoal, and ocean blue.

Product Characteristics

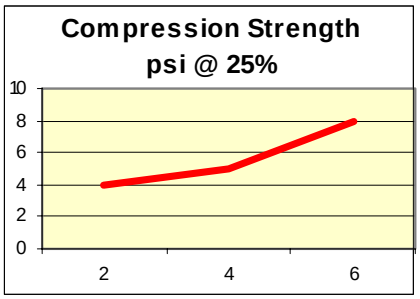
- Increased flexibility, resiliency
- Good mechanical properties at low densities
- Low water absorption and vapor transmission
- Excellent thermal insulation
- Excellent chemical resistance
- Smooth aesthetically pleasing surface
- Strong adhesive anchorage

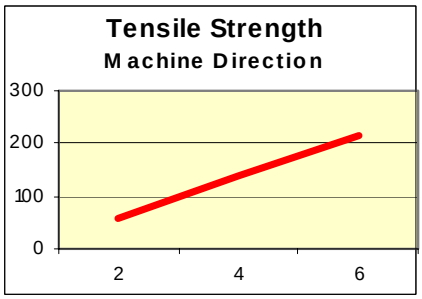
Volara Type EO can be laminated, embossed, thermoformed, die cut, sewn, printed, and pressure sensitive adhesive coated.

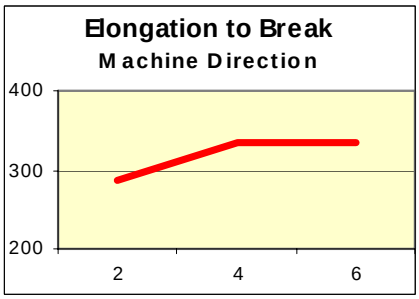
Product Form

- Volara Type EO 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 5/8" Sheets: 1/2" to 1.5"
4 pcf	Rolls: 1/16" to 1/2"
6 pcf	Rolls: 1/32" to 3/8"







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Typical Properties of Volara Type EO

Property	Units	Direction	2 pcf	4 pcf	6 pcf
Density	pcf	—	1.8-2.2	3.6-4.4	5.4-6.6
Compression Strength	psi @ 25%	—	4	6	8
(ASTM D3575)	psi @ 50%	—	12	17	20
Tensile Strength	psi	M	69	140	217
(ASTM D3575)		CM	45	99	154
Elongation To Break	%	M	253	335	335
(ASTM D3575)		CM	232	362	378
Tear Resistance	lbs/inch	M	9	20	32
(ASTM D3575)		CM	11	17	27
Compression Set (ASTM D3575)	% of original thickness	—	29	11	6
Shore Hardness	A Scale	—	4	10	30
(ASTM D2240)	OO Scale	—	45	55	65
Thermal Stability	%	M	-2.3	-1.7	-1.6
24 hours @ 158°F	Maximum	CM	-1.2	-1.2	-1.1
Thermal Conductivity K Factor @ 70°F BTU/(hr)(ft2)(°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
Buoyancy	pcf	—	55.0 min.	—	—

M = Machine direction
CM = Cross-machine direction

- = Indicates shrinkage
+ = Indicates expansion

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.

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