

type M

Product Definition

Volara Type M is a 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 M can be produced as white or a variety of colors. Standard colors are white, black, charcoal and ocean blue.

Product Characteristics

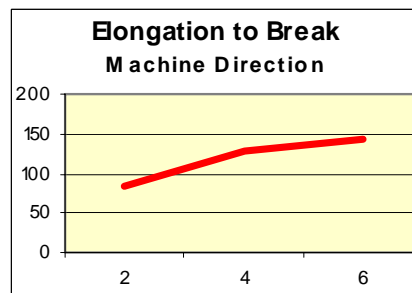
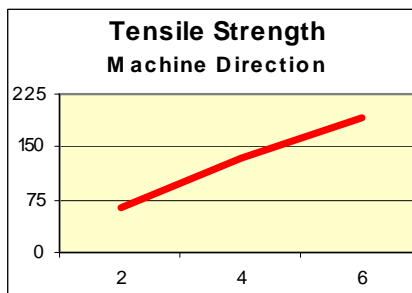
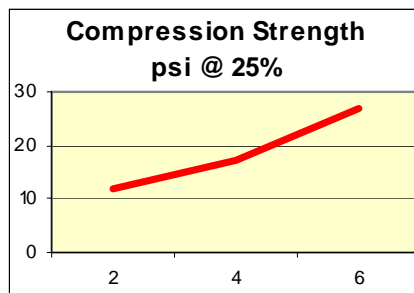
- Good mechanical properties at low densities
- Low water absorption and vapor transmission
- Excellent thermal insulation
- Excellent chemical resistance
- Smooth aesthetically pleasing surface
- Good compression molding grade
- Higher stiffness than Type A
- Higher temperature resistance than Type A

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

Product Form

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

Density	Thickness Range
2 pcf	Rolls: 3/32" to 5/8" Sheets: 1/2" to 1.5"
4 pcf	Rolls: 1/16" to 1/4"
6 pcf	Rolls: 1/32" to 1/4"



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Typical Properties of Volara Type M

<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	14	26
	psi @ 50%	—	13	26	41
Tensile Strength (ASTM D3575)	psi	M	63	135	191
		CM	41	92	139
Elongation To Break (ASTM D3575)	%	M	85	127	144
		CM	58	61	86
Tear Resistance (ASTM D3575)	lbs/inch	M	6	16	26
		CM	12	30	42
Compression Set (ASTM D3575)	% of original thickness	—	27	17	12
Shore Hardness (ASTM D2240)	A Scale	—	8	18	31
	OO Scale	—	53	78	97
Thermal Stability 3 hours @ 180°F	%	M	-1.6	-0.8	-0.7
	Maximum	CM	-0.8	-0.3	-0.3
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	lbs/sq.ft. of Cut Surface	—	0.04	0.04	0.04

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.