

# type TS

## Product Definition

Volara Type TS is a flexible closed-cell polyolefin alloy 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 TS also has improved adhesive anchorage capabilities, temperature resistance, and toughness for better in line processing. Standard colors are natural, black, and ocean blue.

## Product Characteristics

- Superior adhesive anchorage
- Good mechanical properties at low densities
- Low water absorption and vapor transmission
- Excellent chemical resistance
- Smooth aesthetically pleasing surface
- High tensile and tear strength

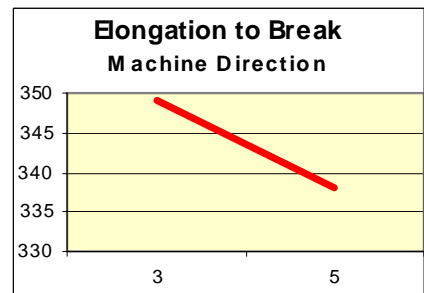
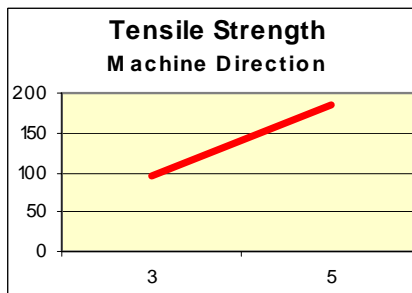
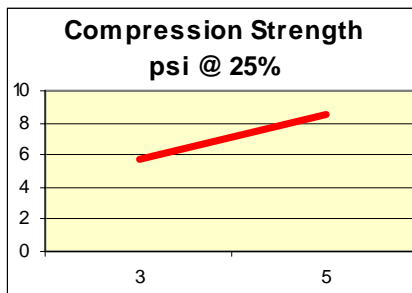
## Product Form

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

Density	Thickness Range
3 pcf	Rolls: 1/16" to 1/8"
5 pcf	Rolls: 1/32" to 1/16"

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

Also available in 2, 4, and 6 pcf densities in standard thicknesses in both roll and sheet form.



[www.SekisuiVoltek.com](http://www.SekisuiVoltek.com)

## Typical Properties of Volara Type TS

<u>Property</u>	<u>Units</u>	<u>Direction</u>	<u>3 pcf</u>	<u>5pcf</u>
Density	pcf	—	3.0	5.0
Compression Strength (ASTM D3575)	psi @ 25%	—	6	9
	psi @ 50%	—	16	21
Tensile Strength (ASTM D3575)	psi	M	96	184
		CM	66	135
Elongation To Break (ASTM D3575)	%	M	349	338
		CM	318	327
Tear Resistance (ASTM D3575)	lbs/inch	M	19	32
		CM	15	27
Compression Set (ASTM D3575)	% of original thickness	—	14	6.5
Thermal Stability 3 hours @ 180°F	%	M	-1.3	-1.7
		CM	-1.2	-1.7
		Thickness	+2.6	+3.0
Thermal Conductivity K Factor @ 70°F BTU/(hr)(ft <sup>2</sup> )(°F/in) R Factor - Thickness/K Factor		—	0.27	0.32
Water Absorption (ASTM D1667)	lbs/sq.ft. of cut surface	—	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.