

# T

# T Foam

## Qycell Crosslinked Polyethylene Foam

### Applications:

- Athletic and Recreational
- Appliances
- Artificial Turf
- Automotive
- Construction
- Consumer Goods
- Footwear
- Government & Military
- Gym Mats & Carpeting
- Luggage & Cases
- Marine
- Medical
- Packaging
- Transportation



### T Foam - Qycell Crosslinked PE Foam

T foam is chemically crosslinked polyethylene (PE) foam. Our T foam is produced in continuous rolls resulting in a foam product with uniform, closed cells and smooth skins on both sides.

T foam is also available in sheets. T foam is lightweight, flexible, and soft to the touch. Yet it is strong, tough, resilient, and resistant to moisture, many chemicals, and temperature extremes.

Compared to non-crosslinked PE foam, T foam typically offers superior thermal stability and insulating properties. It also offers improved dimensional consistency and stability over a wide range of fabrication methods and end-use conditions.

Additives available are PE film (or skin), E.V.A. (ethyl vinyl acetate) primarily ordered to enhance softness or stretch, and flame retardants.

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*Qycell*  
focused on foam

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Qycell brand f

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superior consistency. Qycell supplies cross-linked, irradiated, EVA, and micro-cellular bun foams to the following Qycell specifications.

## T FOAM

Irradiation (TI) and chemically (T) cross-linked closed cell polyethylene (PE) foam is manufactured as a continuous sheet, which can be supplied as either rolls or sheets of foam.

**Density** or “hardness” ranges from 2.0 lbs pcf (lbs per ft<sup>3</sup>) and extends to 30 lbs pcf. Qycell designates 2 lbs pcf as T-20, 3 lbs pcf as T-30, etc..

**Thickness** of the roll/sheet ranges anywhere from 1/8” to 4” laminated.

**Widths** of the roll/sheet vary from our standard 60” to as wide as 72”. (A typical roll diameter is approximately 36”.)

**Lengths** of the roll/sheet ranges anywhere from 10 ft to 2,000 ft.

**Colors** are classed within two categories. The standard colors are natural (the color of French vanilla ice cream), gray, charcoal, and black. Custom colors are available for an additional fee.

**Additives** such as PE film (or skin) are designated by the letter “F” (i.e. TF). The letter “E” is designated for EVA (ethyl vinyl acetate), which is primarily added to enhance the softness or elasticity of the foam (i.e. TE). The additive for flame retardant is designated as “FR” and alloy is represented as “A”. A single sided smooth surface is represented as “SM”, however a double-sided smooth surface is represented as “SSM” (i.e. TSSM).

**Minimum:** An order of five rolls is required for purchase.

## T-Foam Physical Properties\*

Qycell Designation	T-20	T-40	T-60
Nominal Density (PFC)	2.0	4.0	6.0
Tensile Strength (PSI)	43	70	135
Elongation (% to break)	120	150	190
Tear Resistance (lb/in)	11	17	36
Compression Strenght (PSI) (25% deflection)	6	12	19
Compression Set (% of original thickness)	24	18	13
Thermal Stability (% of chg @ 158° for 24hrs)	<.5	<.6	<.6
Thermal Conductivity (btu/hr/inch ft/°F)	.26	.30	.30
Working Temperature Range	-70°F to 175°F		
Water Absorption (lb/ft³°F)	<.06	<.05	<.04
Flammability (MVSS302)	Pass Available		

Testing done according to ASTM D3575 & ASTM C177 (thermal conductivity) standards.

Test methods available upon request. All data is typical and not to be considered specification values.

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