



# Falcon Foam Typical\* Properties

(Values in parentheses are ASTM C578 Minimums)

Typical Density #/ft3 >	0.75 (0.70)	0.95 (0.90)	1.2 (1.15)	1.42 (1.35)	1.92 (1.80)	2.55 (2.40)	2.85 (2.85)
Classification >	Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
Falcon Product Code >	<b>100</b>	<b>101</b>	<b>121</b>	<b>151</b>	<b>201</b>	<b>300</b>	<b>301</b>
R-Value at 75F >	3.20 (3.1)	3.85 (3.6)	3.92 (3.8)	4.20 (4.0)	4.36 (4.2)	4.40 (4.2)	4.40 (4.3)
R-Value at 40F >	3.50 (3.3)	4.22 (4.0)	4.35 (4.2)	4.55 (4.4)	4.66 (4.6)	4.70 (4.6)	xxx
R-Value at 25F >	3.90 (3.4)	4.40 (4.2)	4.55 (4.4)	4.82 (4.6)	4.94 (4.8)	4.96 (4.8)	xxx
Compression psi 1% (D6817)	2.9 (2.2)	4.4 (3.6)	7.0 (5.8)	8.8 (7.3)	11.0 (10.9)	15.0 (15.0)	19.0 (18.6)
Compression psi 5% (D6817)	7.0 (5.1)	10.5 (8.0)	15.0 (13.1)	18.0 (16.7)	26.0 (24.7)	40.0 (35.0)	52.0 (43.5)
Compression psi 10% Deform	8.0 (5.0)	12.0 (10.0)	16.5 (13.0)	20.0 (15.0)	28.0 (25.0)	45.0 (40.0)	60.0 (60.0)
Flexural Strength psi	18.0 (10.0)	29.0 (25.0)	35.0 (30.0)	42.0 (35.0)	55.0 (50.0)	75.0 (60.0)	95.0 (75.0)
Tensile Strength psi	18.0	26.0	33.0	40.0	50.0	70.0	90.0
Shear Strength psi	13.0	20.0	xxx	26.0	38.0	xxx	xxx
Water Absorption vol%	3.0 (4.0)	3.0 (4.0)	2.5 (3.0)	2.0 (3.0)	1.5 (2.0)	1.5 (2.0)	1.5 (2.0)
Dimensional Tolerances	Thickness +/- 1/32" (1/16"), Width +/- 1/16" (1/4"), Length +/- 1/8" (1/4"). Sanded Thickness +/- 1/64" (NA)						
Surface Burning	<b>US via E84 = Flame Spread 20 (75), Smoke Developed 400 (450), Canada CAN/ULC S102.2 = Flame Spread 290, Smoke Developed &gt; 500</b>						
Mold Resistance	<b>NO growth of mold as tested via ASTM G21, D3273, and C1338</b>						
Freeze / Thaw Exposure	<b>NO degradation of Thermal Resistance, Dimensional Stability, or Strength after ASTM C1512 cycling test for insulation</b>						
15 year Below Grade	<b>NO degradation of Thermal Resistance, Dimensional Stability, or Physical Strength after 15 year foundation exposure test.</b>						

\* The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. This data is offered as a service to our customers and is subject to change. All information can be confirmed by contacting Falcon Foam's Technical Department.

**GeoFoam - See separate technical insert**



