



Falcon GeoFoam Typical* Properties

(Values in parentheses are ASTM D6817 Minimums)

Falcon GeoFoam is UL Classified for PHYSICAL PROPERTIES, see UL R16529.QORW

Typical Density #/ft ³ >	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)
D6817 Classification >	EPS12	EPS15	EPS19	EPS22	EPS29	EPS39	EPS46
AASHTO / FHWA Draft '06	xxx	EPS25	EPS40	EPS50	EPS70	EPS100	xxx
Falcon Product Code >	100	101	121	151	201	300	301
Compression psi 1% Deform	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% Deform	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 (5.8)	12.0 (10.2)	17.5 (16.0)	22.0 (19.6)	30.0 (29.0)	43.0 (40.0)	55.0 (50.0)
Compressive Tests on 2" cubes per D6817, note permanent denting occurs between 1-2% deformation							
Flexural Strength psi	18.0 (10.0)	29.0 (25.0)	35.0 (30.0)	42.0 (40.0)	55.0 (50.0)	75.0 (60.0)	95.0 (75.0)
Oxygen Index, min vol%	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Dimensional Tolerances	Thickness +/- 1/8" (3/16"), Width +/- 1/4" (1/4"), Length +/- 1/2" (1/2")						
Surface Burning	US via E84 = Flame Spread 20 (75), Smoke Developed 400 (450), Canada CAN/ULC S102.2 = Flame Spread 290, Smoke Developed > 500						
Mold Resistance	NO growth of mold as tested via ASTM G21, D3273, and C1338						
Freeze / Thaw Exposure	NO degradation of Thermal Resistance, Dimensional Stability, or Strength after ASTM C1512 cycling test for insulation						
15 year Below Grade	NO degradation of Thermal Resistance, Dimensional Stability, or Physical Strength after 15 year foundation exposure test.						

* 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.