

## Thermo PUF/PIR Technical Data

Properties	Test Method	Value	Value	Value	Value	Value	Value
Nominal Density:kg/m3 (lb/ft)	ASTMD-1 622	<b>35Kg/m3</b> (2.18)	<b>50Kg/m3</b> (3.12)	<b>65Kg/m3</b> (4.05)	<b>80Kg/m3</b> (4.99)	<b>100Kg/m3</b> (6.24)	<b>120Kg/m3</b> (7.49)
Thermal Conductivity @10°C(50°F)aged W/m*K (Btu -In/h*ft²°F)	ASTMCS18/91	0.023 (0.159)	0.023 (0.159)	0.024 (0.166)	0.027 (0.187)	0.030 (0.207)	0.032 (0.221)
Average Compressive Strength @10% Relative Deformation kPa (lb/in2)	ASTM D1621 BS EN 826:1996	245 (35.53)	365 (52.93)	750 (108.77)	1120 (162.44)	1400 (203.05)	1680 (243.66)
Compressive Modulus: kPa (lb/in2)	ASTM F-i 839-01	13020 (1888.9)	18600 (2697.70)	24200 (3509.91)	29880 (4333.72)	37360 (4333.72)	44830 (6502.04)
TensileStrength:kPa(lb/in 2)	ASTMD-1623	220 (31.9)	385 (55.83)	730 (105.87)	1080 (156.64)	1340 (195.65)	1610 (233.51)
Shear Strength: kPa (lb/in2)	ASTM F-i 839-01	225 (32.63)	390 (56.56)	610 (88.47)	850 (123.28)	1070 (155.19)	1280 (185.64)
Shear Modulus:kPa (lb/in2)	ASTM Fi83901	3620 (525.03)	5210 (755.64)	6770 (981.9)	10910 (1582.36)	13640 (1978.31)	16360 (2372.81)
Closed Cell Content (Apparent vol.%)	ASTM D-2856	95	95	95	96	98	98
Avg.Water Vapour Transmission (grains /h* ft)	ASTM E-96 -00	1.19	1.12	0.5	0.4	0.4	0.4
Water Absorption on % W/V	ASTM D-2842	2.25	2	1.5	1.3	0.8	0.8
Dimensional Stability (% Linear Change) 24hours@-20°C 24 hours@ +110°C 24 hours @ +70°C 100% RH	ASTMD-2126	Negligible 1.5 2	Negligible 1.5 2	Negligible 1 1.5	Negligible <1 <1	Negligible <1 <1	Negligible <1 <1
Upper Temperature Limit°C(°F)		140 (284)	140 (284)	140 (284)	140 (284)	140 (284)	140 (284)
Linear Coefficient Of Expansion m/m*k	ASTM D-696	40-70X10- 6	40-70X10- 6	40-70X10- 6	40-70X10- 6	40-70X10- 6	40-70X10- 6
Flammability Class	BS4102	B2	B2	B2	B2	B2/B3	B2/B3
Average time & Extentof Burning (mm)	ASTM D-635:91	<5	<5	<5	5	5	5

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