



PowerBase – Typical Properties

Product Number	PB2000	
Material Type	Expanded Polypropylene	
Material Thickness	0.9 in (23 mm)	
Material Density	3.63 lbs / cubic ft	
Part Format	Edge locking panel	
Part Size	16.8859 sq ft per panel	
Part Dimensions	Approximately 61 in x 41 in	
Part Weight	4.1 lbs per panel	
Tensile Strength	110 psi	ISO 1798
Tensile elongation	40%	ISO 1798
Vertical Permeability	15,500 mm/hr	EN 12616
Thermal Expansion per 1° C change	0.003 in / ft	ISO 4897
Compression Strength @25% strain @ 50% strain @75% strain	35 psi 49 psi 100 psi	ISO 844
Compression Set – static load (25% strain, 22hrs, 23°C after 24 hrs)	9.0% (0.083 in)	ISO 1856C
Compression Set – static vehicle simulation (32 psi, 2hrs, 23°C after 24hrs)	4.5% (0.059 in)	SYSTEM TEST
Compression Set – dynamic vehicle simulation (32 psi, 50 cycles, 23°C after 24hrs)	0.8% (0.031 in)	SYSTEM TEST
Compression Set – repeated impacts 106psi, repeated load, 10,000 cycles	2.4% (0.021 in)	SYSTEM TEST with 1.97 in synthetic turf
Thermal Conductivity λ Value	0.041 W / m °K	EN 12667
Thermal Resistance R Value	0.63	ISO 8301, EN 12664/7
Friction Coefficient movement of artificial turf over 50mm distance maximum force average force	2.0 lbs 1.58 lbs	ISO 8295
Microbiological / Chemical Analysis bacteria resistance fungi resistance chemical resistance	no growth no growth no detrimental effects	ASTM G22-76 ASTM G21-96
Accelerated Aging 20yr model – % tensile strength loss 20yr model – % elongation loss	- <10% after 120 days @ 85°C - <5% after 120days @ 85°C	