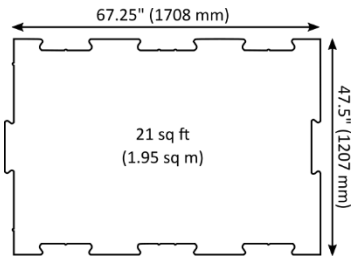
SHOCKPAD 17
BY BROCK

Typical Properties & Specification

Product Number	SP17XL
Material Type	Expanded polypropylene composite containing approximately 30% by volume reprocessed pre-consumer and/or post-consumer recycled material
Part Format	Interlocking panel
Part Size, nominal net coverage	21.0 sq. ft per panel (1.95 sq. m)
Part Thickness, nominal	0.67 in (17 mm)
Part Length, nominal	67.25 in (1708 mm)
Part Width, nominal	47.5 in (1207 mm)
Part Weight, nominal	4.3 lb per panel



Property (Shock Pad Only)	Typical Value	Specification	Test Method
Tensile Strength [1]	70 psi	> 45 psi	ASTM D3574 Test E
Tensile Elongation [1]	19%	> 10%	ASTM D3574 Test E
Compression Strength [2] @ 25% strain @ 50% strain	 33 psi 51 psi	 > 25 psi > 40 psi	ASTM D3575 Test D
Compression Set [3] 35 psi for 30 minutes – % set after 24 hr	5%	< 7%	Brock Test Method
Coefficient of Linear Thermal Expansion [4] per 1 °C change	0.06 mm/m	< 0.10 mm/m	ASTM D696
Water Absorption [5] After 24 hr immersion	3.3%	≤ 5%	DIN 53428
Water Permeability (Vertical Drainage) [5]	953 in/hr	> 500 in/hr	ASTM F1551: DIN 18-035, Part 6
Critical Fall Height (HIC = 1000) [5]	0.77 m	> 0.6 m	ASTM F3146, Procedure A
Gmax [5]	111 g	< 120 g	ASTM F355 (Missile A)
Shock Absorption [5]	61% 64%	> 55% > 55%	ASTM F3189 (Adv. Artificial Athlete) EN 14808 (Artificial Athlete)
Vertical Deformation [5]	7.0 mm 2.6 mm	< 8.0 mm < 4.0 mm	ASTM F3189 (Adv. Artificial Athlete) EN 14809 (Artificial Athlete)
Resistance to Chemicals [5]	No Change	≤ 2	ASTM F925
Microbiological Analysis bacteria resistance [6] fungi resistance [7]	 No growth No growth	 No growth No growth	 ASTM G22 ASTM G21
Environmental Standards Testing Heavy Metals [8,9] VOCs [8,9] SVOCs [8,9] California Title 22 [9] California Proposition 65 [10]	 Compliant with EPA human health standards, surface water and groundwater quality Compliant Certified (no listed mat'ls)	 Compliant with EPA human health standards, surface water and groundwater quality Compliant Certified (no listed mat'ls)	 EPA 6010B, 7470A, 7471A EPA 8260B EPA 8270C CA Code of Regulations, Title 22, Division 4.5, Chapter 11 California Proposition 65

DATA ARE TYPICAL PROPERTIES ONLY. THIS DOCUMENT DOES NOT CREATE ANY WARRANTY, EXPRESS OR IMPLIED.

[1-10] Test reports available upon request. Patented and Patents Pending.

Brock USA LLC
www.brockusa.com
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