



Physical Properties

Polygreen Multi consists of thermal bonded (closed-celled) crosslinked Polyethylene foam (PEX). This foam originates from production residues and contains no contaminants. Polygreen Multi is tested based on microbiological resistance to weathering, oxidation, acids & bases. The predicted durability of PEX is 100 years minimum.

Polygreen Multi is tested by simulated mechanical wear using the Lisport wear test. Even after 65,000 cycles (Lisport simulated average 30* year usage) there are hardly any differences in sport technical characteristics (SA, VD, HIC). Polygreen Multi is tested on simulated ageing weatherability and has virtually no influence on the dimensional properties.

* based on 1 cycle = 1 hour of usage and 2080 hours of usage per year (average usage of 52 weeks a year and 40 hours a week)

** Results will vary depending on actual field configuration and final cross-section design

Technical Specifications

Physical

Thickness at 2 kPa (0.3 psi) load	.79 in
Mass per unit area	.61 lb/ft ²

Strength

Tensile	38 psi	ASTM D 3575
Compressive at 25% deflection	12 psi	ASTM D 3575
Thickness after 72 hour recovery	.79 in	
Compressive at 50% deflection	49 psi	ASTM D 3575
Thickness after 72 hour recovery	.79 in	

Performance

Impact attenuation (gmax)**	80-110	ASTM F 355-A
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Drainage and Isolation

Water permeability via infiltration rate	>1,000 in/h	
Water flow rate under 2 in (51 mm) hydraulic head	15 gpm/ft ²	ASTM D 4491
(resulting) Water permeability by permittivity	5.9 gpm/ft ²	ASTM D 4491
In-plane water flow rate at 0.3 psi (2 kPa) load and 0.005 hydraulic gradient (0.5% slope)	.05 gpm/ft	ASTM D 4716
(resulting) Hydraulic transmissivity [θ]	10 gpm/ft	ASTM D 4716
Thermal conductivity [λ10]	.03 BTU/h.ft. °F	ASTM C 177
(resulting) Thermal resistance [R-value]	2271 hr.ft ² .°F/BTU	ASTM C 177

The provided information is, to the best of our knowledge, true and accurate (at the time of revision). This information is based on (independent) measurements and (where possible) based on average values, measured over a long and representative period. Additional information (e.g. additional characteristics, specific (independent) reports or statistical analysis) is available upon request. Polygreen Foam is allowed to change this information and/or the product (without notice) and assumes no legal responsibility for use of and/or reliance on this information.