amvic building system

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Physical Properties of Envirosheet®

		Product Designation					
Standard	**Description**	**EN-12**	**EN-16**	**EN-22**	**EN- 30**	**EN-40**	**EN-60**
ASTM D1622	Density lb/ft³ Density Kg/m³	1.0 lb/ft³ 16.0 Kg/m³	1.35 lb/ft³ 21.6 Kg/m³	1.5 lb/ft³ 24.0 Kg/m³	2.0 lb/ft³ 32.0 Kg/m³	2.5 lb/ft³ 40.0 Kg/m³	3.5 lb/ft³ 56.0 Kg/m³
ASTM C518	R-Value/1-inch @ 75°F RSI/25mm @ 24°C	3.9 ft2•h•°F/BTU 0.65 (m2•°K/W)	4.0 ft2•h•°F/BTU 0.70 (m2•°K/W)	4.1 ft2•h•°F/BTU 0.74 (m2•°K/W)	4.2 ft2•h•°F/BTU 0.74 (m2•°K/W)	4.3 ft2•h•°F/BTU 0.76 (m2•°K/W)	4.6 ft2•h•°F/BTU 0.81 (m2•°K/W
ASTM STP1320	R-Value/1-inch @ 0°F RSI/25mm @ -18°C	4.6 ft2•h•°F/BTU 0.81 (m2•°K/W)	4.6 ft2•h•°F/BTU 0.81 (m2•°K/W)	4.7 ft2•h•°F/BTU 0.84 (m2•°K/W)	4.8 ft2•h•°F/BTU 0.84 (m2•°K/W)	5.0 ft2•h•°F/BTU 0.88 (m2•°K/W)	5.1 ft2•h•°F/BTU 0.89 (m2•°K/W)
ASTM D1621	Compressive strength at 10% strain	12.5 psi (86.0 KPa)	16.4 psi (110.4 KPa)	22.0 psi (173 KPa)	30.0 psi (207 KPa)	40.0 psi (276 KPa)	60.0 psi (414 KPa)
ASTM C203	Flexural strength	25.0 psi (173.0 KPa)	35.0 psi (240.0 KPa)	45.0 psi (310.0 KPa)	50.0 psi (345.0 KPa)	63.2 psi (436.0 KPa)	75.0 psi (517.0 KPa)
ASTM D2842	Water absorption (% by volume)	3.8%	3.8%	1.87%	1.80%	1.57%	1.50%
ASTM E96	Water vapor permeance	282.0 ng/Pa.s.m2 (4.95 perm)	200.0 ng/Pa.s.m2 (3.5 perm)	187.23 ng/Pa.s.m2 (3.29 perm)	147.00 ng/Pa.s.m2 (2.50 perm)	104.29 ng/Pa.s.m2 (1.83 perm)	104.29 ng/Pa.s.m2 (1.83 perm)
ASTM D2126	Dimensional Stability Linear change	-1.5%	-1.5%	-1.4%	-1.4%	-1.3%	-1.3%
ASTM D2863	Limiting Oxygen Index	>24%	>24%	>24%	>24%	>24%	>24%