FOAM GLASS - PRODUCT TEST DATA

AUTHORITY	TEST	STANDARD	RESULT
SGS	Fire Classification UK Buildings Regulations 2006, approved document B, appen-dix A paragraph 13	BS 476 Part 6 + A1 2009 BS 476 Part 7: 1997	Class 0
SGS	Reaction to fire	EN 13501-01	Euro Class A1
SGS	Temperature service limits		-265°C to +430°C
SGS	Specific Heat	EN ISO 10456	1000 J (Kg.K)
SGS	Melting Point	DIN 4120-17	<1000°C
SGS	Accelerating aging	<1000 cycles	No change
SGS	Co-efficient of thermal expansion	ISO 10545-8 1994	$9x10^{-6}$/K
SGS	Hygroscopicity		Zero
SGS	Capillarity		Zero
SGS	Radioactivity	GB 6566-2010 Limit of radionuclicles. Test of all substances in accordance with EU Regulations.	SVHC = <0.1 (w.w) PASS
SGS	Thermal Conductivity		0.04 w/m.K
SGS	Salt Spray Test	ASTM B117-11	No Change
SGS	Anchorage strength (Back)	ASTMC1354/C1354M-15	1385 N

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SGS	Flexural strength	BS EN 12372:2006	<6.2 MPa Strength can be further increased by increasing section modulus.
SGS	Sound Insulation		<42dB Can be increased with panel thickness.
SGS	Accelerating ageing	60 cycles	
SGS	Tensile Strength after accelerated ageing	ASTM C297/C297M-04 (2010)	2.36 MPa
SGS	Flexural strength (Dry)	ASTM C880/C880M-09	22.7 MPa
SGS	Flexural Strength (Wet)	ASTM C880/C880M-09	18.9MPa
SGS	Freeze/Thaw resistance	ASTM C67-11 100 cycles	Some minor cracks
SGS	Tensile Strength test after Freeze/Thaw	ASTM C297/C297M-04 (2010)	2.5 MPa
SGS	Salt Spray Test	ASTM B117-11	Some discouloring, but no other visual change.
SGS	Co-efficient thermal expansion	ISO 10545-8 1994	$12.9x10^{-6}$ °C
SGS	Stone Anchorage Pull-Out strength	ASTM C1354-9	3084 N