Technical Data Sheet

Manufactured in Australia by Foamex, Styroboard EPS offers a range of products available in various sizes and specifications depending on your project requirements.

Styroboard® EPS

PHYSICAL PROPERTIES	UNIT	CLASS									TEST METHOD
		L	SL	S	M	H	VH	VVH32	VVH36	VVH38	
Compressive stress at 10% deformation, min.	kPa	50	70	85	105	135	165	250	300	350	AS-2498.3
Cross breaking strength, min.	kPa	95	135	165	200	260	320	500	550	600	AS-2498.4
Rate of vapour transmission, max. measured parallel to rise at 23□C	µg/m2.s	710	630	580	520	450	400	340	280	220	AS-2498.5
Max. dimensional stability of length, width and thickness, 7 days at 70□C	%	1	1	1	1	1	1	1	1	1	AS-2498.6
Min. thermal resistance (50mm sample), at a mean temperature of 25□C	m2K/W R(50/90)	1	1.20	1.22	1.25	1.40	1.41	1.43	1.45	1.5	AS/NZS 4859.1-2018

FLAME PROPOGATION CHARACTERISTICS	UNIT	CLASS									TEST METHOD
		L	SL	S	M	H	VH	VVH32	VVH36	VVH38	
Median flame duration max.	SD	2	2	2	2	2	2	2	2	2	AS-2122.1
Eighth value max.	SD	3	3	3	3	3	3	3	3	3	AS-2122.1
Median volume retained	%	15	18	22	30	40	50	60	60	70	AS-2122.1
Eighth value min.	%	12	15	19	27	37	47	57	57	68	AS-2122.1

Technical Data Sheet

Continued

OTHER PROPERTIES	UNIT	CLASS									TEST METHOD
		L	SL	S	M	H	VH	VVH32	VVH36	VVH38	
Density - nominal	kg/m3	11	13.5	16	19	24	28	32	36	38	n/a
Compressive strength at 1% deformation, max.	kPa	14	23	31	42	58	60	63	65	70	ASTM D1621
Compressive strength at 5% deformation, max.	kPa	33	59	68	95	134	164	230	290	340	ASTM D1621
Flexural strength, min.	kPa	60	150	178	218	304	337	362	385	413	ASTM C203
Elastic modulus, min.	kPa	1450	2200	3100	4250	5850	7250	8650	9850	10950	n/a
Water absorption by total immersion, max.	Vol. %	4	4	4	3	3	2	2	1	1	ASTM C272
Buoyancy force	kg/m3	989	986.5	984	981	976	972	968	965	963	n/a
Coefficient of thermal expansion	m/m deg K	6.3 x 10-5	6.3 x 10-5	6.3 x 10-5	6.3 x 10-5	6.3 x 10-5	6.3 x 10-5	6.3 x 10-6	6.3 x 10-7	6.3 x 10-8	ASTM D696

Australian Standard 1366, Part-3 1992 Physical Properties of Rigid Cellular Polystyrene sets out the minimum required properties for six classes of EPS. The Standard defines the industry specifications and manufacturing methods for compliance.
The table above details the physical properties of EPS that are mandated for satisfying AS 1366, Part-3 1992. Foamex Styroboard EPS is stringently manufactured to meet all requirements defined in Australian Standard 1366, Part-3 1992.
VVH32, VVH36 & VVH38 are additional grades developed by Foamex that sit outside of this standard to meet the demand for customised requirements.