



Allstate **GeoFoam** meets or exceeds the requirements of AS 1366.3 and American Standard ASTM D6817” Standard Specification for Rigid, Cellular Polystyrene **Geofoam**”. Allstate conducts routine, rigorous testing of Allstate GeoFoam to ensure quality is maintained to these standards.

EPS PROPERTIES: Allstate EPS GeoFoam

PROPERTIES	Unit	SL	S	M	H	VH	TEST METHOD
Bouyancy Force	kg/m ³	986.5	984	981	976	972	
Flame Propagation Characteristics:							
Median Flame Duration (max.)	SD	2	2	2	2	2	
Eight Valure (max.)	SD	3	3	3	3	3	
Eight Valure (min.)	%	15	19	27	37	47	
Median Volume Retained	%	18	22	30	40	50	AS 2122.1
Density	kg/m ³	13.5	16	19	24	28	ISO 845
Dimensional Stability of Length, Width and Thickness (min.) at 70°C, dry conditions 7 days	%	1	1	1	1	1	AS-2498.6
Compressive stress at 10% deformation (min.)	kPa	70	85	105	135	165	AS-2498.3
Compressive stress at 2% deformation (min.)	kPa	40	60	70	100	115	AS-2498.3
Compressive stress at 1% deformation (min.)	kPa	23	30	35	48	55	AS-2498.3
Rate of Water Vapour transmission (min.) measured parallel to rise at 23°C	µg/m ² .s	630	580	520	460	400	AS-2498.5
Water absorption by total immersion (max.)	Vol. %	4	4	3	3	2	ASTM C272
Cross-breaking Strength (min.)	kPa	135	165	200	260	320	AS-2498.4
Elastic Modulus (min.)	kPa	2200	3100	4250	5850	7250	ASTM D6817
Flexural Strength (min.)	kPa	150	178	218	304	337	ASTM D6817
Thermal Conductivity at Mean emperature of 23°C	W/m.K	0.0407	0.039	0.038	0.0366	0.035	AS 2464.5

Density comparison between EPS and other civil construction materials

