

AS1366.3

Table of physical properties of EPS

PHYSICAL PROPERTY	UNIT	SL	S	M	H	VH	TEST METHOD
Density	kg/m ³	12.5	16	20	24	28	
Compressive stress at 10% deformation (min)	kPa	70	85	105	135	165	AS 2498.3
Cross-breaking strength (min)	kPa	135	165	200	260	320	AS 2498.4
Rate of water vapour transmission (max) measured parallel to rise at 23°C	mg/m2s	630	580	520	460	400	AS 2498.5
Dimensional stability of length, width, thickness (max) at 70°C, dry condition 7 days	%	1	1	1	1	1	AS 2498.6
Thermal resistance (min) at a mean temperature of 25°C	m2.K/W	1.13	1.17	1.20	1.25	1.28	AS 2464.5 or AS 2464.6
Flame propagation characteristics:							AS 2122.1
median flame duration (max)	s	2	2	2	2	2	
eighth value (max)	s	3	3	3	3	3	
median volume retained	%	18	22	30	40	50	
eighth value (min)	%	15	19	27	37	47	