

Koolfoam - Polystyrene Physical Properties

Koolfoam - EPS is manufactured in accordance and complies with all elements of the recognised standard AS 1366 part 3 1992

Density Chart - Grade of Koolfoam EPS Versus Weight pm3 (BP = Black Pearl)

unit	SL	S	H	VH	BP	
Kg pm3	13 - 14	15-16	22-24	28-32	22-24	

Table 1 - Compressive Stress at 10% Deformation (min)

Unit	SL grade	S grade	H grade	VH grade	BP grade	Test
Kpa (min)	70	85	135	165	135	AS2498.3

Table 2 - Cross Breaking Strength (min)

Unit	SL	S	H	VH	BP	Test
Kpa (min)	135	165	260	165	135	AS2498.4

Table 3 - Dimensional Stability (max) Length, Width and Thickness 70c Dry Condition, Seven Days (max)

Unit	SL	S	H	VH	BP	Test
% (max)	1	1	1	1	1	AS2498.6

The numbers in the tables represent minimum or maximum achieved values. Koolfoam EPS test results are available upon request.

Fire performance

Table 4 - Flame Propagation Characteristics

	SL	S	H	VH	BP	Test
Medium flame duration (max) s	2	2	2	2	2	AS2122.1
Eighth value (max) s	3	3	3	3	3	
Medium volume retained %	18	22	40	50	40	
Eighth value (min) %	15	19	37	47	37	

Table 5- AS 1530.3 -1999 Early Fire Hazard Properties

Material	Ignitability Index (0-20)	Spread of Flame Index (0-10)	Heat Evolved Index (0-10)	Smoke Developed Index (0-10)
EPS	12	0	3	5