



PACS

113 Barkby Road
Troon Industrial Estate
Leicester
LE4 9LG

Telephone (0116) 274 1595
(0116) 276 8555

Fax (0116) 246 1090

Enquiries E-Mail pacssales@p-a-c-s.co.uk

Accounts E-mail accounts@p-a-c-s.co.uk

Orders E-mail orders@p-a-c-s.co.uk

Web Site www.p-a-c-s.co.uk

DATA SHEET FOR EXPANDED POLYSTYRENE

Expanded polystyrene (EPS) is moisture resistant, compatible with most building products except materials containing solvents. EPS is rot proof, unaffected by bacteria, moulds or fungi and is non-toxic, non irritant and odourless. EPS does not contain CFC or HCFC but is a combustible when tested to BS476: Part 4 and will ignite with a flame.

The material should be stored under cover protected from direct sunlight and out of contact with ground moisture.

		EPS 70	EPS 100	EPS 150	EPS 200	
		SDN	HD20	EHD	UHD	
Strength						
Compressive Stress @ 10%	kPa (min)	70	100	150	200	
Cross Bending Strength	kPa (min)	115	150	200	250	
Compressive Stress @ 1%	kPa	21	45	70	100	
Heat						
Thermal Conductivity	W/mK (Max)	0.038	0.036	0.035	0.034	BS EN13163
Actual Tested Conductivity	W/mK (Max)	0.037	0.034	0.034	0.033	
Dimensional Stability	% (Max)	1	1	1	1	
Operating Temperature	°C (Max)	80	80	80	80	
Water						
Vapour Transmission	ngm/Ns (Max)	6.9	5	4.2	4.2	
Vapour Resistivity	Mns/gm (Min)	145	200	238	238	
Density						
	kg/M3	15	20	20-23	30	

A flame-retardant additive version containing cycloaliphitic halogenated hydrocarbon is available which will inhibit the early stages of fire. The products of combustion are carbon monoxide, carbon dioxide, styrene, water and a dense black soot. The FRA version also emits hydrogen bromide which the beads are coated with. The FRA version will extinguish once a flame is removed. Flash ignition is between 350° and 490°C.