



Applications and Properties for STYROFOAM™ Products

FABRICATION APPLICATIONS			STYROFOAM RTM	STYROFOAM HD300	STYROFOAM LB	STYROFOAM LT	STYROFOAM SP
REFRIGERATED TRANSPORT	Truck	Walls	●				
		Floor	●	●			
		Roofs	●				
		Doors	●				
COLDSTORAGE	Coldstore	Floors					●
		Highly Loaded Floors		●			
		Panels			●	●	
COMPOSITE PANELS	Building Panels	Curtain Walling			●		
		Infill			●		
		General Laminates			●		

PROPERTIES	STANDARD	UNIT	STYROFOAM RTM	STYROFOAM HD300	STYROFOAM LB	STYROFOAM LT	STYROFOAM SP
Density (minimum)	BS4370: Method 2	kg/m ³	40	45	30	28	34
Thermal conductivity (90 days, 10 °C)	BS4370: Method 7	W/mK	0.025	0.025	0.027	0.024 ⁽¹⁾	0.027
Compressive strength at 10% deflection	BS4370: Method 3	kN/m ²	400	700	300	250	350
Compressive modulus	BS4370: Method 3	kN/m ²	16-25,000	25-33,000	12-20,000	12-15,000	10-22,000
Tensile strength	DIN 53292	kN/m ²	700	1000	500	450	—
Tensile modulus	DIN 53292	kN/m ²	16-25,000	25-33,000	12-20,000	12-15,000	—
Shear strength	ASTM C- 273	kN/m ²	400	500	250	250	—
Shear modulus	ASTM C- 273	kN/m ²	10,000	14,000	8,000	8,000	—
Design compressive stress which gives 2% compression after 20 years.	PREN 1606	kN/m ²	—	250	—	—	120
Water vapour resistivity	BS4370: Method 8	μ - value	100-160	100-160	100-160	80-160	100-160
Water absorption by immersion (28 days, full boards)	DIN 53434	% - vol.	0.5	0.5	0.5	0.5	0.5
Capillarity	—	—	nil	nil	nil	nil	nil
Coefficient of linear thermal expansion	BS4370: Method 13	mm/mK	0.07	0.07	0.07	0.07	0.07
Temperature limits	—	°C	-50/+75	-50/+75	-50/+75	-50/+75	-50/+75
Fire classification	BS3837: Part 1 1986	—	A	A	A	A	A
Size: Length	—	mm	2500	2500	2500	2500/6000	2500
Width	—	mm	600,1200	600	600,1200	605	600
Thickness ⁽²⁾	—	mm	(2)	(2)	(2)	(2)	(2)
Tolerances thickness	—	mm	+/-0.5	+/-0.5	+/-0.5	+/-0.5	+/-3.0
Width (600mm board)	—	mm	+3/-0	+3/-0	+3/-0	+3/-0	+3/-0
Width (1200mm board)	—	mm	—	—	—	+5/-0	+5/-0
Length (600mm board)	—	mm	+10/-0 (2500)	+10/-0	—	+10/-0	+10/-0
Length (1200mm board)	—	mm	+15/-0 (6000)	—	—	+15/-0	+15/-0
Edge profile	—	—	butt	butt	butt	butt	butt
Surface	—	—	planed with or without grooves	planed with or without grooves	planed	planed	skin

⁽¹⁾ STYROFOAM LT is tested at 30 days and 10°C for thermal conductivity

⁽²⁾ Special dimensions are available on request

⁽³⁾ Above properties are general product property description , for detail of specific product properties , please refer to relevant product Sales Specification