



EXPANDED POLYSTYRENE SOLUTIONS

Expanded Polystyrene (EPS)

Technical / Physical Properties

Standards	ASTM C 578	TYPE XI	TYPE I	TYPE VIII	TYPE II	TYPE IX	TYPE XIV	TYPE XV
		BS 3837	LD	SD	HD	EHD	UHD	SHD
	Product	STYRO 150	STYRO 180	STYRO 220	STYRO 290	STYRO 380	STYRO 460	STYRO 500
Physical Properties	Density	12-15	15-18	18-22	22-29	29-38	38-46	46-50
		(Kg / m ³)						
	Compressive Resistance	35	69	113	134	257	366	451
		(@10 % deformation, min kPa)						
	Thermal Resistance R-Value	0.60	0.64	0.67	0.71	0.72	0.72	0.74
		(of 25.4 mm thickness @ mean temperture of 24 ± 1 °C min,K.m ² /W)						
	Thermal Conductivity K-Value	0.0422	0.0395	0.0377	0.0354	0.0353	0.0351	0.0344
		(max, W/m.K @ 35 °C and 60 % RH)						
	Flexural Strength	70	173	208	240	345	414	517
		(min, kPa)						
	Water Vapor Permeance	5.0	5.0	3.5	3.5	2.5	2.5	2.5
		(of 25.4 mm thickness, max, perm)						
	Water Absorption	4.0	4.0	3.0	3.0	2.0	2.0	2.0
		(total immersion, max, volume %)						
	Dimensional Stability	2.0	2.0	2.0	2.0	2.0	2.0	2.0
		(change in diminsions, max %)						
Oxygen Index	24	24	24	24	24	24	24	
	(min, volume %)							
Flame Spread Index	?	?	5	?	?	?	?	
	(max, as per surface burning characteristics ASTM E84) 200							
Smoke Developed	?	?	?	?	?	?	?	
	0 1 2 3 4 5 6 7 8 9 10							



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 **Styro**

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