



EXPANDED POLYSTYRENE SOLUTIONS

STYRO GRAYPOR

Technical / Physical Properties

Standards	ASTM C 578	TYPE XI	TYPE I	TYPE VIII	TYPE II	TYPE IX
	BS 3837	LD	SD	HD	EHD	UHD
Product	Graypor 150	Graypor 180	Graypor 220	Graypor 290	Graypor 380	
Physical Properties	Density	12	15	18	22	29
	(min, Kg / m ³)					
	Compressive Resistance	35	69	90	104	173
	(@ yield or 10 % deformation, which occurs first, min kPa)					
	Thermal Resistance R-Value	0.77	0.78	0.80	0.82	0.82
	(of 25.4 mm thickness @ mean temperature of 24 ± 1 °C min,K.m ² /W)					
	Thermal Conductivity K-Value	0.0344	0.0340	0.0332	0.0322	0.0322
	(max, W/m.K @ 35 °C and 60 % RH, as per independent tests)					
	Flexural Strength	70	173	208	240	345
	(min, kPa)					
	Water Vapor Permeance	5.0	5.0	3.5	3.5	2.5
	(of 25.4 mm thickness, max, perm)					
	Water Absorption	4.0	4.0	3.0	3.0	2.0
	(total immersion, max, volume %)					
	Dimensional Stability	2.0	2.0	2.0	2.0	2.0
(change in dimensions, max %)						
Oxygen Index	24	24	24	24	24	
(min, volume %)						
Flame Spread Index	25	25	25	25	25	
(max, as per surface burning characteristics ASTM E84)						
Smoke Developed	450	450	450	450	450	
(max, as per surface burning characteristics ASTM E84)						



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Insulation Applications

