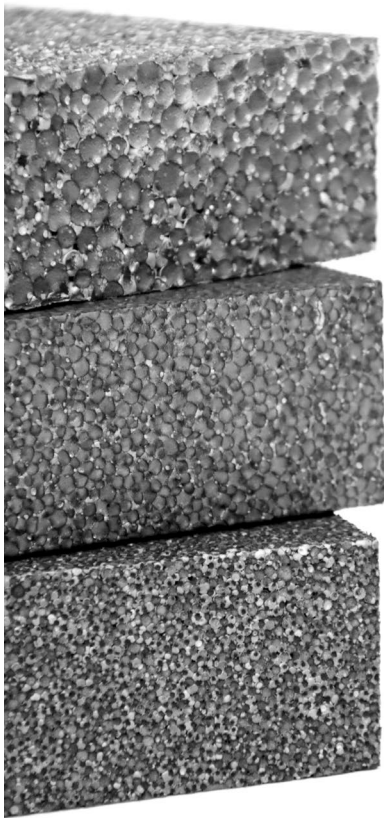




EXPANDED POLYSTYRENE SOLUTIONS

# STYRO GRAYPOR



STYRO Graypor is an innovative, energy-efficient and cost-effective graphite polystyrene rigid insulation foam introduced by BASF. STYRO produces this unique insulation material for a wide range of construction applications.

STYRO Graypor has higher insulation values compared to white EPS as the graphite reflects radiant heat energy like a mirror, increasing the material's resistance to the flow of heat, or R-value.



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# STYRO GRAYPOR

## Technical and 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	15-18	18-22	22-29	29-38	
	( Kg / m <sup>3</sup> )						
	Compressive Resistance	35	70	105	134	257	
	(@ yield or 10 % deformation, which occurs first, min kPa )						
	Thermal Resistance R-Value	0.76	0.86	0.87	0.87	0.87	
	( of 25.4 mm thickness @ mean temperature of 24 ± 1 °C min,K.m <sup>2</sup> /W )						
	Thermal Conductivity K-Value	0.031	0.0294	0.0293	0.0292	0.0292	
	( max, W/m.K @ 35 °C and 60 % RH, as per independent tests )						
	Flexural Strength	70	184	210	250	382	
	( min, kPa )						
	Water Vapor Permeance	3.5	3.3	3.2	3.1	2.7	
	( of 25.4 mm thickness, max, perm )						
	Water Absorption	2.56	1.8	1.6	1.3	1.1	
	( 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	5	2	5	5	5		
( max, as per surface burning characteristics ASTM E84 )							
Smoke Developed	20	20	20	20	20		
( max, as per surface burning characteristics ASTM E84 )							

