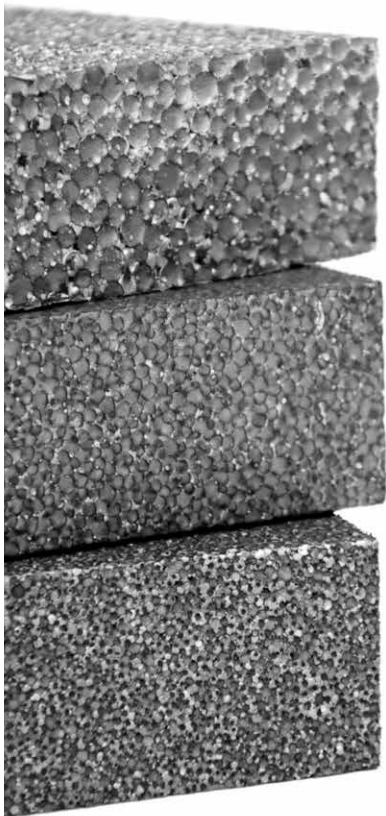


STYRO GRAYPOR



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.

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 ³)					
	Compressive Resistance	35	70	113	134	257
	(@ yield or 10 % deformation, which occurs first, min kPa)					
	Thermal Resistance R-Value	0.76	0.77	0.82	0.84	0.85
	(of 25.4 mm thickness @ mean temperature of 24 ± 1 °C min,K.m ² /W)					
	Thermal Conductivity K-Value	0.0331	0.0328	0.0308	0.0301	0.0300
	(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	3.5	3.5	3.5	2.5	2.5
	(of 25.4 mm thickness, max, perm)					
	Water Absorption	2.0	2.0	2.0	1.0	1.0
	(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	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)						