



EXPANDED POLYSTYRENE SOLUTIONS

# STYRO Expanded Polystyrene (EPS)

## Technical and Physical Properties

Product Name : STYRO 180

Manufacturer : STYRO Insulations Mat. Ind. LLC

Standards	ASTM C 578	TYPE I
		BS 3837
	<b>Product</b>	<b>STYRO 180</b>
Physical Properties	Density	15-18 (kg/m <sup>3</sup> )
	Compressive Resistance	80.8 (@ yield or 10 % deformation, which occurs first, min kPa)
	Thermal Resistance R-Value	0.709 (of 25.4 mm thickness @ mean temperature of 24 ± 1 °C)
	Thermal Conductivity K-Value	0.0358 (Max, W/m.K @ 35 °C and 60 % RH )
	Flexural Strength	185.8 (Min, kPa)
	Water Vapor Permeance	3.3 (of 25.4 mm thickness, max, perm)
	Water Absorption	1.8 (Total immersion, max, Volume %)
	Dimensional Stability	2.0 (Change in dimensions, max)
	Oxygen Index	24 (Min, volume %)
	Flame Spread Index	5 ( Max, as per surface burning characteristics ASTM E84-UI 723 )
	Smoke Developed	5 ( Max, as per surface burning characteristics ASTM E84-UI 723 )

