

## Filcor Polystyrene Specification Sheet

	<b>Grade</b>									
	Filcor 10	Filcor 20	Filcor 45	Filcor 70	Filcor 90	Filcor 100	Filcor 120	Filcor 140	Filcor 160	Filcor 190
<b>To BS EN 13163:2001</b>										
Compressive Strength at 1% Compression (kPa)	10	20	45	70	90	100	120	140	160	190
Compressive Strength at 10% Compression (kPa)	50	70	100	150	200	250	300	350	400	500
Cross Breaking Strength (Bending Strength) (kPa)	75	115	150	200	250	350	450	525	600	750
Shear Strength (kPa) in correlation to Bending Strength	35	55	75	100	125	170	225	260	300	375
Nominal Density (kg/m <sup>3</sup> )	15	15	20	25	30	35	40	45	50	55
<b>Other Physical Properties</b>										
Compressive Modulus Mpa	1.0	2.0	4.5	7.0	9.0	10.0	12.0	14.0	16.0	19.0
Compressive Modulus kN/m <sup>2</sup> @ 1% Compression	1000	2000	4500	7000	9000	10000	12000	14000	16000	19000
Thermal Conductivity Value = W/m K	0.0430	0.0380	0.0360	0.035	0.034	0.0330	0.0330	0.0325	0.0320	0.0320
Max. Depth of Concrete (mm)	415	830	1875	2915	3750	4165	5000	5830	6665	7915