

## BASALT PROPERTIES COMPARATIVE SPECIFICATION SHEET

PROPERTIES	BASALT	E-GLASS	S-GLASS	CARBON	ARAMID
Density (g/cm <sup>3</sup> )	2.8	2.54-2.57	2.54	1.78	1.45
Tensile strength (Mpa)	4400-4840	3100-3800	4020-4650	3500-6000	2900-3400
Elastic modulus (Gpa)	90-110	72.5-75.5	83-86	230	70
Elongation at break (%)	3.1	4.7	5.3	1.5-2.0	2.8-3.6
Max. service temp. (°C)	650	380	300	500	250

These results are taken from the following sources: BSEN. ISO. 2062: 1995 Textile and BS 947: 1970 Textile.