





		Polyester GRP	Polyester GRP		
Property	*Phenclad	Unfilled	Filled	Mild Steel	Aluminium
Density (g/cc)	1.4-1.5	1.4-1.5	1.6-2.3	7.8	2.7
Tensile Strength(MPa)	100-150	100-150	30-75	410-480	80-430
Tensile Modulus(GPa)	5.5-7.5	6-7.5	7-19	210	70
Elongation at Break %	1.8-2.5	1.8-2.5	0.4-1.7	20-35	3-18
Flexural Strength(MPa)	150-200	150-200	100-125	200(yield)	65-220(yield)
Flexural Modulus (GPa)	6-8	6-8	6-15	210	70
1ZOD Impact Strength notched KJ / m <sup>2</sup>	65-75	50-60	20-50	-	-
Coeff. Thermal Exp. (°C <sup>-1</sup> × 10 <sup>-6</sup> )	10-15	25-35	18-25	11-14	22-24
Coeff. Thermal Conduct. (W/m°C)	0.20-0.24	0.2-0.23	0.22-0.3	46	140-190
Temperature Index (BS 6853)	>420 degC	-	<365 degC	<420 degC (Painted)	>420 degC (Painted)
Building Regulations (BS 476)	Class 1/0	Class 1/0	Class 1/0	Class 0 (Painted)	Class 0 (Painted)
3 Metre Cube Smoke Test (BS 6853)	Cat. 1	Fail	Cat.2	Cat.1 (Painted)	Cat.1 (Painted)

**Health & Safety :** As with other sheet products, careful handling and lifting, using gloves, will minimise accidents. Good workshop practices should be in place when machining, i.e. Proper ventilation, extraction, dust masks, visor / glasses and gloves. In food processing areas, damaged or scuffed sheets exposing fibres below the surface coating should be replaced or sealed using materials as advised by the manufacturer.

**PHENCLAD and the ENVIRONMENT:** As stated throughout this brochure, PHENCLAD will not contribute significant amounts of smoke or toxic fumes into the atmosphere as a result of fire. It will also replace many materials which are in dwindling supply (e.g. hardwoods) and others which consume high amounts of energy during manufacture (e.g. aluminium, steel). On completion of its useful life - for whatever - reason PHENCLAD can be crushed and recycled as a filler for a variety of purposes.

**QUALITY STATEMENT:** Quality controls are in place in the procurement and storage of materials, throughout the process operation and at packing and dispatch. Staff are employed on work of which they have full understanding and which falls within their known capabilities. Materials are purchased on the 'most suitable for the job' principle with non-conforming materials stored remotely and returned to the supplier. Intermittent quality audits are carried out by the management who are fully committed to the installation of quality control systems that comply with recognised international standards.

**NOTE:** All information provided in this brochure is believed to be accurate and is given in good faith. Customers should, however, satisfy themselves as to the suitability of any PHENCLAD product as The Phenclad Corporation can give no warranty as to the fitness of such products for particular purposes. Any implied warranty or conditions (statutory or otherwise) is excluded except to the extent that such exclusion is prevented by law.

Tel.

E-mail:

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**PHENOLIC SHEET PRODUCTS**