

### Product Information Leaflet

**SolarClad** is a range of pre-cured pipe sections and moulded accessories such as bends, elbows, t-pieces, end caps, valve & flange boxes etc..., based on our SolarRoll PE 55 UV curing GRP (Glass Re-inforced Plastic) Laminate containing high grade Isophthalic Polyester resins, fillers and glass re-inforcements which have been formulated to ensure excellent protection against corrosion, abrasion, impact and aggressive climatic conditions.

**SolarClad** products have been introduced to the Solartech range in order to provide a more efficient and improved user friendly application procedure when applying Solartech products to all types of insulation and also as a non metallic cladding system, while still maintaining the integrity of the product.

**SolarClad** can be supplied ex factory ready to fit or alternatively pre-formed at site location. The pre-cured sections have adequate flexibility to be sprung open and fitted in position on the pipe section. The wide range of moulded accessories, are supplied to order, ex factory and from approved SolarClad accessory manufacturers.

**SolarClad** products are bonded together using the **SolarBond** adhesive systems.

(See separate **SolarBond** Product Information Leaflets for full details)

#### Advantages in using **SolarClad**:

- ◆ Simplified application procedures
- ◆ Reduced application time leading to major cost savings
- ◆ Reduced Health & Safety issues
- ◆ Fully sealed system vastly reducing possible CUI



# SolarClad®

## Product Data

Material Thickness	Material can be supplied in the 1.5mm - 2.5 mm range (60-100mils)	
	<b>Typical Values</b>	<b>Test Values</b>
Tensile Strength	55Mpa (7970 psi)	BS 278-1994
Flexural strength	>130 Mpa (18,800 psi)	ASTM D790-30
Flexural Modulus	5.98 Gpa(8.6x10 <sup>5</sup> psi)	ASTM D2344
Elongation & break	>3%	BS 2782 –1994
Coeff. Of Thermal expansion	2.9 10.5 Degree C	ASTM D696-03
Impact Resistance	>60 Kj/sqm	BE EN ISO 180
Hardness	>60 Barcol	ASTM D2583-01
Compression Strength	>200 Mpa (29,000 psi)	ASTM D695-2002a
Water Vapor Permeability	0.28g/m2/24/mmHg (0.18 perm)	ASTM E96
Heat distortion	>145 Deg C (>293 F)	ASTM D648
Fire rating	ASTM E84 CLASS A, BS 476pt 7 CLASS 1, IMO RESOLUTION MSC307 (88)(2010FTP CODE) ANNEX 1: PART 2 & PART 5	
Heat Resistance	Dry: 200 Deg C (390 F)	
Chemical Resistance	Good: Chemical resistance chart available on request	
Electrical Properties	Dielectric strength: 9KV/mm as per IEC 243 Arc Resistance: greater than 180 seconds as per ASTM D495 Tracking Resistance: greater than 600 volts as per IEC 112 Insulation resistance: 10 to the power of 13 ohms as per IEC 93	

## Application Data

Application guidelines for the SolarClad System can be obtained from any Solartech agent or by contacting Solartech International Ltd. FZE



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**Note:** SolarRoll PE55 is a product of Solartech International Ltd BVI company. This product is **EXCLUSIVELY** manufactured Under Licensed by Greentech Thermal Insulation Products Manufacturing LLC, U.A.E.

**DISCLAIMER :** The information contained herein is to the best of our knowledge accurate and is given in good faith without warranty. Users are deemed to have satisfied themselves independently as to the suitability of our products for their particular purpose. In no event shall SolarTech International Limited be liable for consequent or incidental damages.