



# Synthetic veils for filament winding

Norafin Industries (Germany) GmbH have introduced a range of synthetic surfacing veils based on polyester fibres for use in filament winding of composite pipes and tanks. With specifications designed to complement the filament winding process, the product characteristics are highlighted below:-

**Product 00164** a 40g/m<sup>2</sup> “flat” white binder free polyester veil designed to give a smooth inner surface and excellent control of the thickness of the resin rich inner corrosion liner and to provide sufficient reinforcement to inhibit corrosion or stress induced cracking, crazing and delamination.

**Product 02071** a 40g/m<sup>2</sup> fine aperture binder free polyester veil designed to ensure full wet out of the veil for guaranteed corrosion protection and faster processing speeds. Together with excellent control of the thickness of the resin rich inner corrosion liner again this veil provides sufficient reinforcement to inhibit corrosion or stress induced cracking, crazing and delamination.

**Product 00413** a 40g/m<sup>2</sup> “flat” white polyester veil with added binder to give high “stiffness” for improved dimensional stability, reduced necking and wrinkling. This allows high tension overwrapping of the outer surface of the pipe or tank for enhanced protection against UV degradation, wind erosion and physical damage.

Nominal specifications of the synthetic veils in this product range are given in the table below:-

	00164	02071	00413
Product description	100% PET, White	100% PET, White	100% PET, White
Finish	Flat	Fine aperture	Flat + binder
Areal weight	40g/m <sup>2</sup>	40g/m <sup>2</sup>	40g/m <sup>2</sup>
Thickness	0.40mm	0.56mm	0.36mm
Tensile strength MD	130N/50mm	120N/50mm	130N/50mm
Tensile Strength CD	75N/50mm	70N/50mm	75/50mm
Elongation MD	30%	35%	15%
Elongation CD	65%	67%	55%
Binder added	None	None	< 5%

The data contained herein are nominal and are not intended to be a guaranteed specification. Full TDS, including test standards available on request  
The user must be satisfied that the product is entirely suitable for the purpose

Synthetic veils for filament winding are available pre slit to customer specified widths and lengths or as full rolls for customer slitting.

For more information please contact CHM Composites or visit:-  
<http://www.norafin.com/business-area/composites/overview/>

CHM Composites Ltd | Office 5 | Business Development Centre | Turners Hill Road Business Park | Craven Arms | SY7 8DZ | UK

T: + 44 (0) 797 7319753

E: [info@chmcomposites.com](mailto:info@chmcomposites.com) | W: [www.chmcomposites.com](http://www.chmcomposites.com)