



## Synthetic veils for composites

Phoenix Technical Fabrics bv. have introduced a range of synthetic surfacing veils for composites based on polyester fibres. With specifications designed to complement a wide range of composite manufacturing processes, the product characteristics are highlighted below:-

- Product SL 40** a 40g/m<sup>2</sup> “flat” white binder free polyester veil designed to give excellent coverage and reduced reinforcement print through
- Product SLA 45** a 45g/m<sup>2</sup> fine aperture binder free polyester veil with higher wet out rates and giving a characteristic patterned surface
- Product SLB 60** a 60g/m<sup>2</sup> “flat” black binder free polyester veil made using fine denier, solution dyed black fibres designed to give full even black finish with no bleed of colour into the resin
- Product SLB 80** as above at 80g/m<sup>2</sup> to ensure fuller black finish
- Product SL 40B** 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 for use with higher tension processing

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

	SL 40	SLA 45	SLB 60	SLB 80	SL 40B
	100% PET, White	100% PET, White	100% PET, Black	100% PET, Black	100% PET, White
Product description	Flat	Fine aperture	Flat	Flat	Flat + binder
Areal weight	40g/m <sup>2</sup>	45g/m <sup>2</sup>	60g/m <sup>2</sup>	80g/m <sup>2</sup>	40g/m <sup>2</sup>
Thickness	0.40mm	0.55mm	0.58mm	0.65mm	0.36mm
Tensile strength MD	130N/50mm	150N/50mm	200N/50mm	200N/50mm	130N/50mm
Tensile Strength CD	75N/50mm	50N/50mm	125N/50mm	225N/50mm	75N/50mm
Elongation MD	30%	40%	35%	60%	15%
Elongation CD	65%	75%	60%	70%	55%
Binder added	None	None	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 composites are suitable for use in most composite manufacturing processes including hand lay-up, pultrusion, mandrel and filament winding, tape winding and roll wrapping, RTM and VARTM, vacuum infusion, continuous laminating, stitch or adhesive bonded combination fabrics etc..

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

For more information contact Phoenix Technical Fabrics bv