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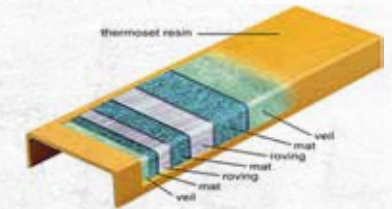
## Norafin Reinforcement & Surfacing veils

### Main Advantage of Norafin Veils:

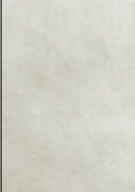




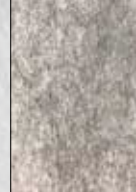
- Light-weight, tear-resistant, durable
- Homogeneous, isotropic MD&CD properties
- Dimensional stability, reduced necking and wrinkling for use with higher tension processing
- Flexible, binder free, easily conformable around complex curvatures
- Rapid wet-out, easy-to-impregnate
- High quality surface finish, reduced reinforcement print through, wear and impact resistance

### Recommended in the following processes:


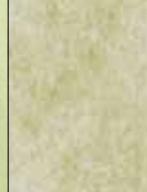
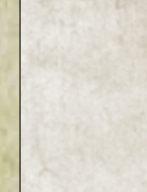

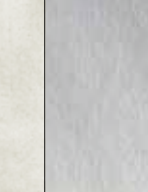
- Pultrusion
- Tape winding, Contact impregnation
- Vacuum Infusion



## Main polyester based items:

Norafin items	00164	02071	00196	02327	00413	02127
Product description	100% PET, white	100% PET, white	100% PET, black	100% PET, white	100% PET, white	80% PET / 20% Antistatic, white
Structure/Finish	Flat	Fine aperture	Flat	Flat + binder (8%)	Flat + binder (<5%)	Flat
						
Weight (g/m <sup>2</sup> )	40	40	60	28	40	40
Thickness (mm)	0,40	0,56	0,58	0,3	0,36	0,40
Tensile Strength MD (N/50mm)	130	120	200	100	130	103
Tensile Strength CD (N/50mm)	75	70	125	60	75	50
Elongation MD (%)	30	35	35	-	15	25
Elongation CD (%)	65	67	60	-	55	44
excellent material characteristics	<ul style="list-style-type: none"> <li>· Smooth surface</li> <li>· Excellent coverage and reduced print through</li> </ul>	<ul style="list-style-type: none"> <li>· Higher wet-out rates</li> <li>· Giving a characteristic patterned surface</li> </ul>	<ul style="list-style-type: none"> <li>· Designed to give full even black colour with no bleed of colour into the resin</li> </ul>	<ul style="list-style-type: none"> <li>· Stiffened with binder for improved dimensional stability</li> </ul>	<ul style="list-style-type: none"> <li>· Stiffened with binder for improved dimensional stability</li> </ul>	<ul style="list-style-type: none"> <li>· Surface conductivity &lt;math&gt;&lt;1.0- 5.0 \times 10^6&lt;/math&gt; Ohms</li> </ul>

## Possibility of other fiber materials:

Norafin	on demand	00984	01124	01123	00041
Product description	100% Para-armide	97% Para-armide / 3% Antistatic	65% Flax / 35 % Viscose Norafin Ecoline®	100% Flax Norafin Ecoline®	100% Viscose
Structure/Finish	Flat	Flat	Flat	Coarse apertured	Flat
					
Weight (g/m <sup>2</sup> )	60	60	60	80	40
Thickness (mm)	0,63	0,7	0,44	1,26	0,54
Tensile Strength MD (N/50mm)	320	120	44	60	40
Tensile Strength CD (N/50mm)	220	80	25	40	25
Elongation MD (%)	30	35	26	10	30
Elongation CD (%)	50	70	46	40	50
Material characteristics	<ul style="list-style-type: none"> <li>· Low CTE (coefficient of thermal expansion)</li> <li>· Extreme stability, cracks resistance</li> </ul>	<ul style="list-style-type: none"> <li>· Low CTE (coefficient of thermal expansion)</li> <li>· Extreme stability, cracks resistance</li> <li>· Enhanced tensile strength</li> </ul>	<ul style="list-style-type: none"> <li>· 100 % Nature</li> <li>· High wet out</li> <li>· High conformability</li> </ul>	<ul style="list-style-type: none"> <li>· 100 % Nature</li> <li>· High wet out</li> <li>· High stability</li> <li>· Fabric finish design</li> </ul>	<ul style="list-style-type: none"> <li>· 100 % Cellulosic</li> <li>· High wet out</li> <li>· Good conformability</li> </ul>

## Product's features:

- Slit width:
  - o 80mm to 120mm
  - o Possibility of narrow and/or wider width on demand
- Roll lengths:
  - o 300lm – 3000lm – possibility of hydro-splicing\*
  - o Other length and rolls diameter possible on demand

\* Patented technology for joining two rolls ends together

