

WOVEN FABRIC

Technical Data Sheet

Carbon Fabric	200g Twill Weave Veil Backed Carbon Fibre Cloth																																												
CHARACTERISTICS	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Nominal</th> <th style="width: 15%;">UM</th> <th style="width: 20%;">Tolerance</th> <th style="width: 40%;">Normative</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">206</td> <td style="text-align: center;">g/m²</td> <td style="text-align: center;">± 5%</td> <td style="text-align: center;">ISO 4605</td> </tr> <tr> <td style="text-align: center;"><i>Weave</i></td> <td style="text-align: center;"><i>2X2 Twill</i></td> <td></td> <td style="text-align: center;">ISO 2113</td> </tr> <tr> <td style="text-align: center;"><i>Width</i></td> <td style="text-align: center;">1000/1200/1270</td> <td style="text-align: center;">mm ± 2,5%</td> <td style="text-align: center;">ISO 22198</td> </tr> <tr> <td style="text-align: center;"><i>Thickness</i></td> <td style="text-align: center;">0,19</td> <td style="text-align: center;">mm ± 2,5%</td> <td style="text-align: center;">ISO 5084(**)</td> </tr> <tr> <td style="text-align: center;"><i>Other informations</i></td> <td colspan="3" style="text-align: center;"><i>Thermofixed Fabric</i></td> </tr> </tbody> </table>	Nominal	UM	Tolerance	Normative	206	g/m ²	± 5%	ISO 4605	<i>Weave</i>	<i>2X2 Twill</i>		ISO 2113	<i>Width</i>	1000/1200/1270	mm ± 2,5%	ISO 22198	<i>Thickness</i>	0,19	mm ± 2,5%	ISO 5084(**)	<i>Other informations</i>	<i>Thermofixed Fabric</i>																						
Nominal	UM	Tolerance	Normative																																										
206	g/m ²	± 5%	ISO 4605																																										
<i>Weave</i>	<i>2X2 Twill</i>		ISO 2113																																										
<i>Width</i>	1000/1200/1270	mm ± 2,5%	ISO 22198																																										
<i>Thickness</i>	0,19	mm ± 2,5%	ISO 5084(**)																																										
<i>Other informations</i>	<i>Thermofixed Fabric</i>																																												
Nominal Construction	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="width: 50%;">WARP</th> <th colspan="2" style="width: 50%;">WEFT</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;"><i>Fiber Description</i></td> <td colspan="2" style="text-align: center;"><i>Fiber Description</i></td> </tr> <tr> <td colspan="2" style="text-align: center;">HS Carbon Fiber HTA 40 E13 - 3K</td> <td colspan="2" style="text-align: center;">HS Carbon Fiber HTA 40 E13 - 3K</td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>Fiber Producer</i></td> <td colspan="2" style="text-align: center;"><i>Fiber Producer</i></td> </tr> <tr> <td colspan="2" style="text-align: center;">TOHO TENAX</td> <td colspan="2" style="text-align: center;">TOHO TENAX</td> </tr> <tr> <td style="text-align: center;"><i>Thread Count</i></td> <td style="text-align: center;">5,0 ends/cm</td> <td style="text-align: center;">ISO 4602</td> <td style="text-align: center;">5,0 ends/cm</td> </tr> <tr> <td style="text-align: center;">ISO 4602</td> <td></td> <td style="text-align: center;">ISO 4602</td> <td></td> </tr> <tr> <td style="text-align: center;"><i>Weight Distribution</i></td> <td style="text-align: center;">100 g/m²</td> <td style="text-align: center;">49%</td> <td style="text-align: center;">100 g/m²</td> </tr> <tr> <td style="text-align: center;">49%</td> <td></td> <td style="text-align: center;">49%</td> <td></td> </tr> <tr> <td style="text-align: center;"><i>Selvages</i></td> <td style="text-align: center;">Weaving style</td> <td style="text-align: center;">LENO</td> <td style="text-align: center;">Type of Fiber</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">HM polyester 22 tex</td> </tr> </tbody> </table>	WARP		WEFT		<i>Fiber Description</i>		<i>Fiber Description</i>		HS Carbon Fiber HTA 40 E13 - 3K		HS Carbon Fiber HTA 40 E13 - 3K		<i>Fiber Producer</i>		<i>Fiber Producer</i>		TOHO TENAX		TOHO TENAX		<i>Thread Count</i>	5,0 ends/cm	ISO 4602	5,0 ends/cm	ISO 4602		ISO 4602		<i>Weight Distribution</i>	100 g/m ²	49%	100 g/m ²	49%		49%		<i>Selvages</i>	Weaving style	LENO	Type of Fiber				HM polyester 22 tex
WARP		WEFT																																											
<i>Fiber Description</i>		<i>Fiber Description</i>																																											
HS Carbon Fiber HTA 40 E13 - 3K		HS Carbon Fiber HTA 40 E13 - 3K																																											
<i>Fiber Producer</i>		<i>Fiber Producer</i>																																											
TOHO TENAX		TOHO TENAX																																											
<i>Thread Count</i>	5,0 ends/cm	ISO 4602	5,0 ends/cm																																										
ISO 4602		ISO 4602																																											
<i>Weight Distribution</i>	100 g/m ²	49%	100 g/m ²																																										
49%		49%																																											
<i>Selvages</i>	Weaving style	LENO	Type of Fiber																																										
			HM polyester 22 tex																																										
Fixation Properties	Mechanical Properties of Fiber																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: center;">Type:</td> <td style="text-align: center;">Copolyamide</td> </tr> <tr> <td style="text-align: center;">Mass per unit area:</td> <td style="text-align: center;">6 g/m²</td> </tr> <tr> <td style="text-align: center;">Melting Range:</td> <td style="text-align: center;">120-130 °C</td> </tr> <tr> <td style="text-align: center;">Heat Resistance:</td> <td style="text-align: center;">105 °C</td> </tr> </tbody> </table>	Type:	Copolyamide	Mass per unit area:	6 g/m ²	Melting Range:	120-130 °C	Heat Resistance:	105 °C	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Fiber</th> <th style="width: 25%;">Strength (nominal)</th> <th style="width: 25%;">Modulus (nominal)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">HTA 40 E13 - 3K</td> <td style="text-align: center;">3950 MPa</td> <td style="text-align: center;">238 GPa</td> </tr> </tbody> </table>	Fiber	Strength (nominal)	Modulus (nominal)	HTA 40 E13 - 3K	3950 MPa	238 GPa																														
Type:	Copolyamide																																												
Mass per unit area:	6 g/m ²																																												
Melting Range:	120-130 °C																																												
Heat Resistance:	105 °C																																												
Fiber	Strength (nominal)	Modulus (nominal)																																											
HTA 40 E13 - 3K	3950 MPa	238 GPa																																											

(**) Theoretical thickness for an epoxy laminate with 40% of reinforcement in volume.

Note : Technical information furnished is based on laboratory findings and believed to be correct. No warranties of any kind are made except that the materials supplied are of standard quality. All risk and liabilities arising from handling, storage and use of products, as well as compliance with applicable legal restrictions, rests with the user.

Date of Issue
20/03/2019