HYPETEX®

COLOURED ADVANCED MATERIALS

CARBON FIBRE

CARBON FIBRE RANGE

2/2 TWILL 220GSM	4
2/2 TWILL 260GSM	6
PLAIN WEAVE 220GSM	8
UNI DIRECTIONAL 100GSM	10
SPREAD TOW 120GSM	12
TWO-TONE SPREAD TOW 160GSM	14

HYPETEX® is responsible for converting innovative ideas into beautiful composite solutions. We are pioneers in adding visual aesthetics to high performance advanced engineered materials. We actively invest in re-discovering the use of carbon composites for visual application and beyond. A good design for us is one that meets both appearance and functionality, it is our experience and understanding of composite technology that makes us market leaders.

HYPETEX° colouring technologies are optimised for either **thermoset** or **thermoplastic** matrix systems, and are mechanically characterised to aid structural optimisation. All our materials are **quality assured** to the highest industry standards.

Our technologies use **water based** resins and **nano pigments** that puts colour onto the composite at the point of production, removing the need for expensive paints or coatings. The result is a colourful **premium aesthetic** part straight from the mould, **reducing post processing costs** and offering a more **environmentally friendly** colouring solution.

HYPETEX material solutions include premium traditional woven and spread tow fabrics (see following pages) which are run frequently. Alternative weights or tow size are also available upon request. Our colouring technology adds a binder to the fabric which enhances fabric stability during cutting and preforming operations.

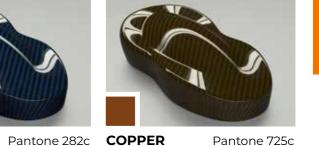
HYPETEX also support **non woven UD**, and bespoke fabric **designs** or specific materials as required by our clients.

2/2 TWILL

Pantone 2090c BOLT **ASPREY**







2/2 TWILL

220GSM

220GSM / 2x2TW / FT300B 3K 1250mm

HYPETEX[®] 220gsm is a 205 gsm twill carbon that has good pliability for forming complex contours and is better at maintaining its fabric stability and less potential stress concentrations. Slightly looser weave increases the drapability compared to the heavier 260gsm fabric.

MATERIAL

Material(s) Carbon Fibre(s) High Strength (HS) Number of filaments 3K

220±3% gsm

0°/90° (BT)

5.1 ends/cm

5.1 ends/cm

Twill 2/2

CONSTRUCTION

Total weight Fibres orientation Warp Weft **Pattern**

BENEFITS

- Lighter and more flexible than the 260gsm 2/2 twill
- Outstanding visual quality for cosmetic
- Excellent fibre alignment and flat weft yarn insertion
- Ideal for prepreg and infusion processes





















Pantone 218c **TENDULKAR** Pantone 3005c











Pantone 102c



2/2 TWILL 260GSM 260GSM / 2x2TW / FT300B 3K 1000mm / 1250mm HYPETEX® 260gsm is a 245gsm twill carbon that has good pliability for forming complex contours and it is better at maintaining it's fabric stability and less potential stress concentrations. The tighter weave than the 210gsm gives the fabric an increased stability but less **MATERIAL** BENEFITS Material(s) Outstanding visual Carbon High Strength (HS) Fibre(s) quality for cosmetic Number of filaments 3K Excellent fibre **CONSTRUCTION** alignment and flat **Total weight** 260±3% gsm weft yarn insertion 0°/90° (BT) Fibres orientation Ideal for prepreg 6.1 ends/cm Warp and infusion 6.1 ends/cm Weft processes Twill 2/2 Pattern













ENZO



















Pantone 218c **TENDULKAR** Pantone 3005c











PLAIN WEAVE

220GSM

220GSM / PW / FT300B 3K 1000mm / 1250mm

220±3% gsm

0°/90° (BT)

5.5 ends/cm

5.5 ends/cm

Plain

HYPETEX® 220gsm is a 200gsm plain weave carbon that looks symmetrical with a small checkerboard style appearance. In this weave the tows are woven in an over/under pattern. The short space between interlaces give the plain weave a high level of stability.

MATERIAL

Material(s) Carbon Fibre(s) High Strength (HS) Number of filaments 3K

CONSTRUCTION

Total weight Fibres orientation Warp Weft Pattern

BENEFITS

- Outstanding visual quality for cosmetic
- Excellent fibre alignment and flat weft yarn insertion
- Ideal for prepreg and infusion processes



ASPREY

ENZO



Pantone 711c **JET BLACK**

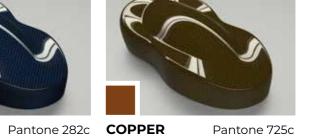


Pantone 7765c CHAPEL



Pantone 6c MALABAR











PLAIN















TENDULKAR Pantone 3005c

















ASPREY

Pantone 2090c BOLT



Pantone 7765c CHAPEL



Pantone 282c **COPPER**













Pantone 6c MALABAR



Pantone 144c MARGAUX



UNI

Pantone 262c **MICHELANGELO** Pantone 2427c









Pantone 490c PROST



Pantone 288c SUZUKA



Pantone 218c **TENDULKAR** Pantone 3005c



TITANIUM



Pantone 877c YAZ





Pantone 627c ZANDVOORT Pantone 165c ZIDANE



Pantone 655c **ZLATAN**



Pantone 102c

120GSM **SPREAD TOW** 120GSM / ST / TR50S 15K 1000mm HYPETEX® 120gsm is a 110gsm spread-tow carbon fabric. Manufactured using a special 'spreading' technology to make the individual tows of carbon fibre very flat and wide. The result is a fabric that is smoother and flatter than a conventional woven cloth with less crimp, providing marginal stiffness advantages. MATERIAL **BENEFITS** Material(s) Outstanding flat and Carbon Fibre(s) High Strength (HS) smooth surface Number of filaments 15K finish Ultra light and thin CONSTRUCTION ply thickness for Total weight 120±5% gsm reduced weights Fibres orientation 0°/90° (BT) Straighter fibre Warp tape 55gsm with reduced crimp 55gsm Weft tape optimise Stabilising material 10gsm Ideal for prepreg and Plain Pattern infusion processes **12** VOLUME 3 **2024**



Pantone 711c **JET BLACK**

Pantone 355c **OAK**









ASPREY

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MOSS

TITANIUM

Pantone 2090c BOLT

Pantone 7765c CHAPEL

Pantone 282c **COPPER**

Pantone 144c MARGAUX

Pantone 725c

















Pantone 6c MALABAR





Pantone 218c **TENDULKAR** Pantone 3005c











Pantone 102c















TENDULKAR Pantone 3005c

HYPETEX®

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