JAMES CROPPER



SURFACETEC™

CARBON VEIL

20342A

James Cropper is a leading advanced materials supplier, offering wide range of highly porous technical nonwovens. Our materials are designed for use in composites and can be customised to meet specific customer or market needs, ensuring an optimum performance benefit as well as process and resin compatibility. They are used across a broad range of industries, improving the finish, fabrication and performance of composites to create market leading products for our customers.

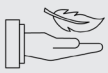
SURFACETEC™ 20342A

MATERIAL INFORMATION

Our wide range of lightweight surfacing veils deliver a high quality, resin rich surface finish to a composite. They are easy to handle and incorporate, reducing the need for further processing of the finished part. Our multi-functional veils also impart functionality to the composite surface, including corrosion resistance, abrasion resistance and electrostatic dissipation.

DESCRIPTION	Wet-laid nonwoven carbon fibre veil
FIBRE TYPE	Carbon
FIBRE LENGTH	6mm / 0.25”
BINDER TYPE	Cross-linked styrene acrylic
KEY PROPERTIES	Electrical conductivity, high temperature resistance, high thermal stability, EMI shielding, static dissipation, chemical resistance
TYPICAL APPLICATIONS	Surfacing veils for composites, adhesive carriers and supports, EMI shielding of composite enclosures, resistive heating and static control in assembly areas

LIGHTWEIGHT



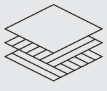
- MINIMUM WEIGHT ADDITION
- FROM 2 g/m^2

SURFACE QUALITY



- HIGH QUALITY SMOOTH RESIN FINISH WITH NO DRY SPOTS
- REDUCES THE NEED FOR FURTHER PROCESSING
- MINIMISES PRINT THROUGH

PROCESSING



- EASY TO HANDLE
- NO ADDITIONAL PROCESS STEPS
- SUITABLE FOR USE IN ALL COMPOSITE MANUFACTURING TECHNIQUES
- RESIN COMPATIBILITY

MULTIFUNCTIONAL



- FUNCTION AS WELL AS FINISH
- CORROSION AND ABRASION RESISTANCE
- ANTISTATIC

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MATERIAL PROPERTIES

AREAL WEIGHT	g/m^2 oz/yd^2	10 0.3
THICKNESS AT 10 kPa (1.45lb/in^3)	mm mil	0.11 4.3
MD TENSILE STRENGTH	N/15mm lb/in	33.2 12.6
CD TENSILE STRENGTH	N/15mm lb/in	6.4 2.4
TYPICAL SURFACE RESISTANCE*	ohm/sq	6 - 18

The values shown in the table are the typical surface resistance range for this material. If you require a specific surface resistance please contact us - we have the experience and capability to design and manufacture material to deliver a specific level of surface resistance and would welcome the opportunity to discuss this.

The data in the table represents indicative values only. The user must be satisfied that the product is entirely suitable for the intended application.

* Surface resistance is measured using a Vermason 75mm square contact block. The contact block is placed on a sample measuring 10cm x 10cm and a 1.0kg deadweights.

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MATERIAL SUPPLY

SUPPLY FORM	Continuous Rolls
MAX ROLL WIDTH	2100mm
MIN ROLL WIDTH	10mm
OTHER SUPPLY FORMS	Sheets and cut shapes

ACCREDITATIONS

We provide assurance that all SURFACETEC™ materials are of the highest possible quality and our manufacturing processes are accredited to BS EN (AS) 9100: 2018 Global Aerospace Quality Standard, ISO 9001 : 2015 Quality Standard, ISO 14001 : 2015 Environmental Management and the OHSAS 18001 : 2007 Occupational Health & Safety Standard.