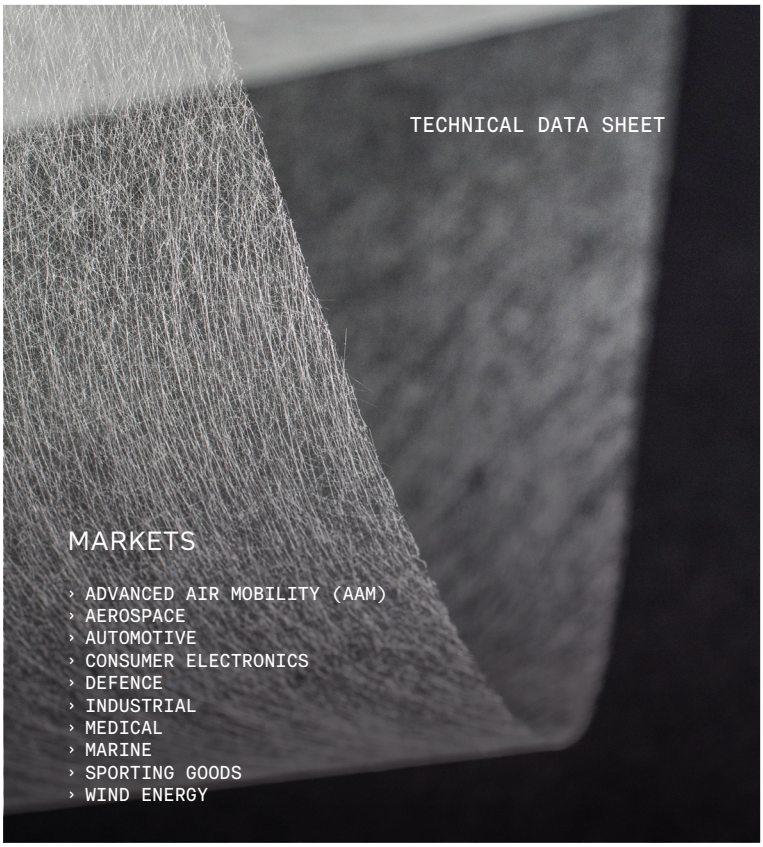
JAMES CROPPER



OPTIVEIL®

E GLASS VEIL

20103D

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.

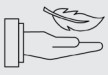
OPTIVEIL® 20103D

MATERIAL INFORMATION

Our lightweight nonwovens are ideal carrier substrates for adhesive films or fragile materials. They act as a support and enable rapid, even wet out of adhesive, creating a thin, uniform bond-line and improving the handling of the final product. In addition to acting as a carrier substrate, our lightweight thermoplastic and glass veils also improve both resin flow and interlaminar fracture toughness in a composite.

DESCRIPTION	Wet-laid nonwoven E glass fibre veil
FIBRE TYPE	E Glass
FIBRE LENGTH	12 mm / 0.5”
FIBRE DIAMETER	11µm
BINDER TYPE	PVA (poly vinyl alcohol)
KEY PROPERTIES	Improved wear resistance, dielectric, high temperature resistance, high thermal stability, corrosion resistance
TYPICAL APPLICATIONS	Surfacing veils giving resin rich surface finish, adhesive carriers and supports, improving corrosion resistance of vessels & pipework in the chemical industry

REDUCE WEIGHT



› LIGHTWEIGHT FOR MINIMUM WEIGHT ADDITION
› AREAL WEIGHTS FROM 2 g/m²

FASTER PRODUCTION TIME



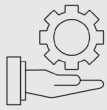
› FAST, EVEN WET OUT OF ADHESIVE
› MINIMISES PROCESSING TIME
› PROVIDES A THIN, UNIFORM BOND LINE TO ENSURE FILM CONSISTENCY AND QUALITY

QUALITY



› IMPROVED RESILIENCE AND HANDLING OF FILM OR FRAGILE MATERIAL
› AS9100 QUALITY ASSURED
› UNIFORM FIBRE DISTRIBUTION AND THICKNESS

PROCESSING EASE



› EASY TO HANDLE
› GOOD TEMPERATURE STABILITY
› RESIN/ADHESIVE COMPATIBILITY

OPTIVEIL® 20103D

MATERIAL PROPERTIES

AREAL WEIGHT	g/m^2	10	17	22	30	34	42	46	50	80	100	200
	oz/yd^2	0.3	0.5	0.6	0.9	1.0	1.2	1.4	1.5	2.4	3.0	6.0
THICKNESS AT 10 kPa ($1.45lb/in^3$)	mm	0.10	0.15	0.19	0.27	0.29	0.35	0.38	0.42	0.72	0.90	1.50
	mil	4	6	8	11	11	14	15	17	28	35	59
MD TENSILE STRENGTH	N/15mm	12	20	26	36	41	50	55	60	80	100	140
	lb/in	5	8	10	14	16	19	21	23	14	38	53
CD TENSILE STRENGTH	N/15mm	5	9	11	15	17	21	23	25	40	50	50
	lb/in	2	3	4	6	6	8	9	10	7	19	19

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

OPTIVEIL® 20103D

MATERIAL SUPPLY

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

ACCREDITATIONS

We provide assurance that all OPTIVEIL® 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.