

Auspreg UV™ MTT 958



“Australian Composites can offer superior grade locally produced PREPREGS backed up, by technical service to composite manufacturers throughout Australia”



DESCRIPTION OF PRODUCT ▶

- E-Glass, Triaxial mat 750 + CSM 600 Impregnated Derakane Vinyl Ester Resin.
- B'Staged UV Curing Prepreg.

BENEFITS OF PREPREGS ▶

- Accurate control of fibre volume fractions.
- Consistent quality of composite parts
- Improvement in working environment due to reduction in styrene emissions.
- Reduction in waste and disposal costs.



BENEFITS OF PREPREGS FROM AUSTRALIAN COMPOSITES ▶

PRODUCT DETAILS ▶

- Standard Roll Sizes – 10m-15m.
- Packed in foil bags and suitable cardboard box.
- 12 boxes per pallet.
- Slit Coils available 300mm,600mm
- Material thickness: nominal 1.5mm

- No ovens or autoclaves required.
- Up to 12 months shelf life stored at room temperature.
- Moulding requires inexpensive-light weight tooling.
- Labour savings of up to 50%.
- Lower skilling of labour needed.
- Full hardness can be achieved in minutes.
- High quality in precision products can be produced.
- Substantial productivity improvements results.

CURING CONDITIONS

- Light intensity – $4.4 \times 10^{-5} \text{ W/cm}^2$
(Approx 1 mercury vapour 400W per 30cm^2 15cm above Prepreg)
- Single Ply – 1.5mm – 10 mins
- Two Ply – 3mm – 20 mins

NOTE : Thickness is dependent on compaction pressure

STORAGE CONDITIONS

- Prepregs *must* be stored in the provided silver foil bag, sealed at both ends
- Storage temperature must be below 60°C
- Prepreg rolls must be kept out of direct sunlight

WORKING CONDITIONS

- Natural light in work area must be kept below 20% of outside daylight.
- Incandescent lighting in work area is recommended.
- Leave plastic covers on until moulding. For a smoother surface retain orange plastic on top layer.



TYPICAL RESULTS

TEST DESCRIPTION	METHOD	UNITS	RESULT
Fibre Volume Fraction		% (by weight)	50% Fabric 50% Resin (this may vary by up to 5%)
Width Finished Product	AS 2001.2.12	mm	$1250 \pm 20 \text{ mm}$
Weight Finished Product	AS 2001.2.13	g/m^2	$2700 \pm 10\%$
Flexural Strength	ASTM D790	MPa	0° $400 \pm 5\%$ 90° $270 \pm 5\%$ $+ 45^\circ$ $390 \pm 5\%$
Flexural Modulus	ASTM D790	GPa	0° 15 ± 3 90° 11 ± 3 $+ 45^\circ$ 14 ± 3
Interlaminar Shear Strength	ASTM D2344	MPa	0° $27 \pm 5\%$ 90° $25 \pm 5\%$ $+ 45^\circ$ $27 \pm 5\%$
Tensile Strength	ASTM D3039M	MPa	0° $260 \pm 5\%$ 90° $100 \pm 5\%$ $+ 45^\circ$ $200 \pm 5\%$
Tensile Modulus	ASTM D3039M	GPa	0° 10 ± 2 90° 10 ± 2 $+ 45^\circ$ 10 ± 2



DISTRIBUTED BY

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