

TECHNICAL DATA SHEET PRODUCT: PU600-HIGH DENSITY POLYURETHANE MODEL BOARD

DESCRIPTION	Easy Composites' PU600 is a 600kg/m ³ density polyurethane model board offering very high dimensional stability, compressive strength and edge stability. It is ideally suited for use in the production of CNC machined master models for tool and mould construction and for use directly as a mould material in low pressure, low volume injection moulding, composite laminating and vacuum forming.			
USES	 CNC machined patterns/masters. Product prototypes/samples. Vacuum forming tools for low volume production. Moulds for low volume composite laminating. Moulds for low pressure injection moulding. Note: Polyurethane board cannot be used as a mould material for the production of pre-preg composite parts because at elevated temperatures polyurethane will inhibit the cure of epoxy resin. For low volume pre-preg tooling use epoxy tooling block.			
BENEFITS	 Very high dimensional stability High heat distortion temperature Solvent resistant Excellent machinability with low dust formation High compressive strength and edge stability Dense, fine surface which can be sealed to a full gloss 			
PROPERTIES	Density Shore hardness Flexural strength E-Modulus Compressive strength Impact resistance Heat distortion temperature Linear thermal expansion coefficient αT	ISO 845 ISO 868 ISO 178 ISO 604 ISO 178 ISO 178 ISO 179 Ue ISO 75 B DIN 53 752	g/cm ³ - MPa MPa MPa kJ/m ² °C K-1	0.60 D 58 19 750 17* 8 75 55 x 10 ⁻⁶
DIMENSIONS	PU600 is available in 50mm and 100r 250mm x 250mm 250mm x 500mm 500mm x 500mm 500mm x 1500mm	nm thicknesses	at the follow	ing sizes:
PROCESSING	PU600 must be acclimatisedPU600 can be worked by h	•		0

milling machine and other high performance tools.

• When bonding sheets together, surfaces should be free of dust, dirt and grease. Bonding should be made by polyurethane adhesive.

STORAGE &PU600 has an unlimited shelf-life when stored flat in dry conditions and normal
temperatures.
Avoid high temperature variation of PU600 board and patterns, moulds and tools
made from the board.

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

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Before using any of our products, users should familiarise themselves with the relevant Technical and MSDS provided by Easy Composites Ltd.

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