

Technical Data Sheet

Model Board Adhesive MG 1050

Two Component, Fast Cure Polyurethane Adhesive System for use with Model Board M1050 and M1150

MG 1050 is odourless two component polyurethane adhesive. The colour of MG 1050 is designed to camouflage the bond line when used as an adhesive for modelboard M1050 or M1150.

Special Features

- Colour matched to modelboard M1050 / M1150
- Very low viscosity
- Fast room temperature cure
- Excellent adhesion

Mix Ratio

MG 1050A : MG 1050B
By Weight 100 : 100

Product Data

Property	Units	MG 1050A	MG 1050B	Mix
Material	-	Polyol	Isocyanate	Polyurethane
Appearance	-	Green liquid	Brown liquid	Green liquid
Viscosity	mPa.s	75 – 95	45 – 65	70 – 90
Density	g/cm ³	0.97 – 1.02	1.10 – 1.15	1.04 – 1.09
Processing / Application Time (100 – 300 g, 25 °C)	Seconds	-	-	140 – 160
Handling Time (25 °C)	Minutes	-	-	25 – 35
Full Cure Time (25 °C)	Hours	-	-	12 – 18
Hardness	Shore D	-	-	77 – 83

Technical Data Sheet

Processing

Slight separation of pigment may occur in Part A during transportation and storage. Ensure that the Part A is completely homogenised before use. Prior to bonding, ensure that the model boards are clean and free of dust, dirt and grease. For best results, it is recommended that the two components are at least 20°C before mixing. Mix the two parts thoroughly as per mixing ratio and apply by brush or spread on both parts to be bonded. Bring the faces together promptly. If necessary, clamp the boards together to ensure a perfect bond. The laminated board can generally be handled in 20 – 30 minutes at room temperature. The precise handling time will vary with temperature. Maintain temperature at a minimum 20 C during cure.

Packaging

Model Board Adhesive MG 1050A is supplied in 1 kg and 5 kg containers.
Model Board Adhesive MG 1050B is supplied in 1 kg and 5 kg containers.

Storage

Model Board Adhesive MG 1050A and MG 1050B should be stored in original, unopened containers between 20 and 25°C. Model Board Adhesive MG 1050B may crystallise partially or completely if not stored at above 20°C. Like all polyurethanes, both components are moisture sensitive. Moisture absorption will cause excessive aeration in cast parts. KEEP THE PACKING TIGHTLY SEALED WHEN NOT IN USE.

If stored under the above conditions, will have a shelf life of 6 months, from the date of production.

Further Information

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

Our technical advice, whether verbal, or in writing is given in good faith, but without warranty – this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended process and use.

Full testing should be undertaken by the customer to approve this product.

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

Technical Data Sheet

Alchemie Limited

Alchemie Ltd develops, formulate and distribute Epoxy Resins, Polyurethane Resins, Silicones, Model Boards and Sheet Wax for use in the following applications:

- Electrical encapsulation
- Rapid Prototyping
- Prototypes
- Casting
- Gel Coating
- Laminating
- Model Making
- Master Models
- Flexible and rigid mould making

We offer fast service, technical support, development expertise, innovative products, diverse knowledge and experience. We are a well-established company, with a high level of investment and experience. We implement BS EN ISO 9001.

Alchemie® and Alchemix® are registered Trademarks of Alchemie Ltd, Warwick Road, Kineton, Warwick, England, CV35 0HU, England, United Kingdom. Ph: +44 (0)1926 641600; FAX: +44 (0)1926 641698