

**Advanced Materials****RenShape<sup>®</sup> BM 5066**

BOARD MATERIAL  
TOOLING BOARD FOR JIGS AND FIXTURES

**KEY  
PROPERTIES**

- Easily machinable (no abrasive fillers)
- Dust-free milling
- Very good edge strength
- Outstanding dimensional stability

**APPLICATIONS**

- Master models
- Foundry patterns
- Copy-milling models

**PRODUCT DATA**

| Product                          | Colour | Test method |
|----------------------------------|--------|-------------|
| RenShape <sup>®</sup><br>BM 5066 | Beige  | visual      |

**PROPERTIES**

|                                  |           |                                  |          |
|----------------------------------|-----------|----------------------------------|----------|
| Density                          | ISO 1183  | g/cm <sup>3</sup>                | app. 1.1 |
| Hardness                         | ISO 868   | Shore D                          | 75 – 80  |
| Coefficient of thermal expansion | ISO 11359 | 10 <sup>-6</sup> K <sup>-1</sup> | 60 – 65  |
| Compressive strength             | ISO 604   | MPa                              | 55 – 60  |
| Flexural strength                | ISO 178   | MPa                              | 55 - 60  |

**BONDING**

|                          |                        |                                                 |
|--------------------------|------------------------|-------------------------------------------------|
| <b>System</b>            |                        | <b>Araldite<sup>®</sup> AW 106<br/>HV 953 U</b> |
| <b>Appearance</b>        | <b>visual</b>          | Transparent                                     |
| <b>Mix ratio</b>         | <b>Parts by weight</b> | 100 : 60                                        |
| <b>Pot life at 25 °C</b> | <b>min</b>             | 60 - 90                                         |
| <b>Clamping time</b>     | <b>h</b>               | 18                                              |

**REPAIR**

Repair with adhesive bonded inserts.

**STORAGE**

Board material may be stored flat in original cartons at 2° to 40° C in a dry area. Temperature variations should be avoided when transporting and storing board material.

**WORKING  
CONDITION**

The product should be used when in the temperature range 20° to 25° C.

**PACKAGING**

| <b>Dimensions</b> | <b>Volume<br/>(l)</b> | <b>Weight<br/>(kg)</b> | <b>Number of Boards<br/>(per pack)</b> | <b>Number of Packs<br/>(per pallet)</b> |
|-------------------|-----------------------|------------------------|----------------------------------------|-----------------------------------------|
| 1500 x 500 x 100  | 75                    | 81                     | 1                                      | 16                                      |
| 1500 x 500 x 50   | 37.5                  | 40.5                   | 1                                      | 32                                      |

**HANDLING  
PRECAUTIONS****Caution**

Our products are generally quite harmless to handle provided that certain precautions normally taken when handling chemicals are observed. The uncured materials must not, for instance, be allowed to come into contact with foodstuffs or food utensils, and measures should be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The wearing of impervious rubber or plastic gloves will normally be necessary; likewise the use of eye protection. The skin should be thoroughly cleansed at the end of each working period by washing with soap and warm water. The use of solvents is to be avoided. Disposable paper - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. These precautions are described in greater detail in the Material Safety Data sheets for the individual products and should be referred to for fuller information.

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