

Advanced Materials**RenShape[®] BM 5112-2**

BOARD MATERIAL

GOOD IMPACT STRENGTH, ABRASION RESISTANCE AND DIMENSIONAL STABILITY

KEY PROPERTIES

- **Good abrasion resistance**
- **Very good impact strength**
- **Good dimensional stability**

APPLICATIONS

- Hammer forms and flanging tools
- Foundry pattern plates and core boxes

PRODUCT DATA

Product	Colour	Test method
RenShape [®] BM 5112-2	Grey	visual

PROPERTIES

Density	ISO 1183	g/cm ³	1.55
Hardness	ISO 868	Shore D	85
Coefficient of thermal expansion	ISO 11359	10 ⁻⁶ k ⁻¹	55 - 60
Deflection temperature	ISO 75	°C	80 - 85
Compressive strength	ISO 604	MPa	90 - 100
Compressive modulus	ISO 604	MPa	4800 - 5000
Flexural strength	ISO 178	MPa	100 - 110

BONDING

System		Araldite® AW 106 HV 953U
Appearance	visual	Transparent
Mix ratio	Parts by weight	100 : 100
Pot life 25°C	min	60 - 90
Clamping time	h	18

REPAIR

System		Araldite® AW 2101 HW 2951
Appearance	visual	Grey
Mix ratio	Parts by weight	100 : 100
Pot life at 25°C	min	3 - 5
Cure time	h	1

Notes: Alternatively repair with adhesive bonded inserts

MILLING

Milling parameter available on request.

STORAGE

Provided that RenShape® BM 5112-2 is stored in a dry place in their original, properly closed containers at the storage temperatures mentioned in the MSDS they will have the shelf lives indicated on the labels. Partly emptied containers should be closed immediately after use.

**WORKING
CONDITION**

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

PACKAGING

Dimensions	Volume (l)	Weight (kg)	Number of Boards (per pack)	Number of Boards (per pallet)
750 x 500 x 50	18.75	29-30	2	24
750 x 500 x 100	37.5	58-59	1	12

**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.

Huntsman Advanced Materials

(Switzerland) GmbH
Klybeckstrasse 200
4057 Basel
Switzerland

Tel: +41 (0)61 299 11 11

Fax: +41 (0)61 299 11 12

www.huntsman.com/advanced_materials
Email: advanced_materials@huntsman.com



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