

RenShape[®] Board Material

BM 5440

Modelling board

Key properties

- Fine surface structure
- Easily shaped and machined
- Low coefficient of thermal expansion, good dimensional stability

Applications

- Master models
- Cubing models
- Patterns

Product data

Product	Colour	Test method
RenShape BM 5440	Brown	visual

Properties

Density	ISO 1183	g/cm ³	0.5
Hardness	ISO 868	Shore D	55 - 60
Coefficient of thermal expansion	ISO 11359	10 ⁻⁶ k ⁻¹	50 - 55
Deflection temperature	ISO 75	°C	75 - 80
Compressive strength	ISO 604	MPa	15 - 20
Compressive modulus	ISO 604	MPa	600 - 700
Flexural strength	ISO 178	MPa	15 - 20

Bonding

System		RenCast® SV 427-2 Ren® HY 5162	RenCast SV 427-2 Ren HV 2419	RenCast FC 52 A/B
Appearance	visual	Brown	Brown	Light beige
Mix ratio	Parts by weight	100 : 35	100 : 30	100 : 100
Pot life at 25°C	min	20	15	4 - 5
Clamping time	h	12	10	3 - 5

Repair

System		XW 5129 XW 5130	XW 5184 XW 5130
Appearance	visual	Brown	Brown, very fine
Mix ratio	Parts by weight	100 : 1-3	100 : 1-3
Pot life at 25°C	min	4 - 6	4 - 6
Cure time	min	25 - 30	25 - 30
Notes		Used mainly as a repair filler	Used mainly as a fine filler to achieve an extra smooth surface finish

Milling

Milling parameter available on request.

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 conditions

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)
1500 x 500 x 25	18.75	9.4	1	64
1500 x 500 x 50	37.5	18.75	1	32
1500 x 500 x 75	56.25	28.1	1	16
1500 x 500 x 100	75	37.5	1	16

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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