
RenShape[®] Board Material

BM 5460

Modelling board

Key properties

- Good surface structure
- Good flexural and compressive strength
- Low coefficient of thermal expansion, good dimensional stability

Applications

- Master models
- Cubing models
- Patterns

Product data

| Product | Colour | Test method |
|---------------------|--------|-------------|
| RenShape BM 5460 | Brown | visual |

Properties

| | | | |
|----------------------------------|-----------|----------------------------------|-----------|
| Density | ISO 1183 | g/cm ³ | 0.7 |
| Hardness | ISO 868 | Shore D | 60 - 65 |
| Coefficient of thermal expansion | ISO 11359 | 10 ⁻⁶ k ⁻¹ | 50 - 55 |
| Deflection temperature | ISO 75 | °C | 75 - 80 |
| Compressive strength | ISO 604 | MPa | 20 - 25 |
| Compressive modulus | ISO 604 | MPa | 910 - 960 |
| Flexural strength | ISO 178 | MPa | 25 - 30 |

Bonding

| System | | RenPaste® SV 427-2 Ren® HY 5162 | RenPaste 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 |
| Notes | | Gap filling | | |

Repair

| System | | XW 5129 XW 5130 | XW 5184 XW 5130 |
|------------------|-----------------|--------------------------------|--|
| Appearance | visual | Brown | Brown |
| 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 (mm) | Volume (l) | Weight (kg) | Number of Boards (per pack) | Number of Boards (per pallet) |
|------------------|------------|-------------|-----------------------------|-------------------------------|
| 1500 x 500 x 25 | 18.75 | 13 - 14 | 4 | 64 |
| 1500 x 500 x 50 | 37.5 | 26 - 28 | 2 | 32 |
| 1500 x 500 x 75 | 56.25 | 39 - 42 | 1 | 16 |
| 1500 x 500 x 100 | 75 | 52 - 56 | 1 | 16 |
| 1500 x 500 x 150 | 112.5 | 78 - 79 | 1 | 8 |
| 1500 x 500 x 200 | 150 | 104 - 105 | 1 | 8 |

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.

Duxford, Cambridge
England CB2 4QA

Tel: +44 (0) 1223 493 000
Fax: +44 (0) 1223 493 002

www.renshape.com

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