

MASTER MODELS

BM 5460

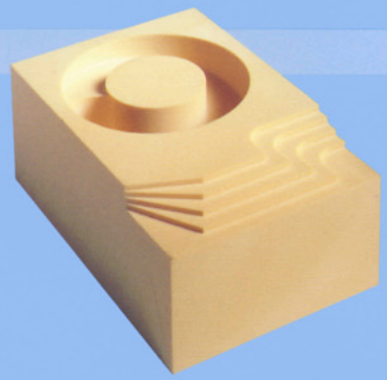
- Master models
- Density 0.7
- Excellent machining qualities
- Generates very little dust
- Workable with hand tools
- Good edge strength
- Very fine surface finish



DUAL PURPOSE

BM 5185

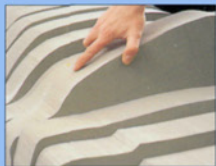
- Styling and master models
- Density 0.5
- Outstanding workability by machine and hand tools
- Fine surface finish



STYLING MODELS

BM 5120

- Styling models
- Density 0.25
- Fastest cutting rates
- Medium fine surface finish
- Most economical



RenShape® Board Materials | Physical properties

	Application	Colour	Density (g/cm ³)	Heat distortion ISO 75 (°C)	Coefficient of thermal expansion ISO 11359 (10 ⁻³ K ⁻¹)
BM 5108	Styling	White	0.08	—	—
BM 5025		Apricot	0.24	60	60 - 70
BM 5030		Sienna	0.3	60 - 70	60 - 65
BM5185	Modelling	Apricot	0.47	60 - 70	60 - 65
BM 5440	Data Control Models and master models	Brown	0.5	75 - 80	50 - 55
BM 5460		Brown	0.7	75 - 80	50 - 55
BM 5470		Brown	0.75	60 - 70	55 - 60
BM 5055	For lay-up-tools at elevated temperatures (LT - Prepreg)	Green	0.72 - 0.75	135 - 140	35 - 45
BM 5172	Foundry	Green	1.2	80 - 90	80 - 85
BM 5272		Olive	1.4	80 - 90	65 - 70
BM 5273		Red	1.5	85 - 90	80 - 90
BM 5112	Hammer forms and flanging tools	Grey	1.5	85 - 90	95 - 105
BM 5166	Jigs and metalforming	Ivory	1.7	75 - 80	45 - 50
RS 470		Grey/brown	1.6 - 1.7	85 - 90	40 - 45
BM 5266	Metalforming and thermoforming	Dark grey	1.7	120 - 125	45 - 50

Renshape® Board Materials Mechanical properties

Flexural strength ISO 178 (MPa)	Compressive strength ISO 604 (MPa)	Compressive modulus ISO 604 (MPa)	Shore-D-Hardness ISO 868	Barcol-Hardness	
—	—	—		—	BM 5108
—	3,7	140	—	—	BM 5025
6 - 8	6 - 8	250 - 300		—	BM 5030
10- 15	10-15	500 - 600	—	—	BM 5185
15 - 20	15 - 20	600 - 700	55 - 60		BM 5440
25 - 30	20 - 25	910 - 960	60 - 65	—	BM 5460
35 - 40	33 - 38	600 - 700	60 - 65	—	BM 5470
30 - 40	50 - 55	2300 - 2400	75	—	BM 5055
70 - 80	60 - 70	1900 - 2000	80	—	BM 5172
80 - 90	70 - 80	3300 - 3500	80 - 85	10 - 15	BM 5272
70 - 80	50 - 60	2400 - 2800	80 - 85	—	BM 5273
70 - 80	50 - 60	2400 - 2800	80 - 85	—	BM5112
55 - 65	90 - 100	7000 - 7500	85 - 90	30 - 35	BM 5166
55 - 65	95 - 100	7000 - 7500	85 - 90	35 - 40	RS 470
80 - 85	125 - 130	7000 - 7500	85 - 90	40 - 45	BM 5266

Renshape® Board Materials Dimensions/Packaging

		Dimensions (mm)	Volume (l)	Weight (kg)	Number of boards (per pack)	Number of boards (per pallet)
BM 5108		2500 x 1200 x 100	300	24 - 27	1	12
		2500 x 1200 x 200	600	48 - 54	1	6
		2500 x 1200 x 400	1200	96 - 108	1	3
BM 5025		2000 x 1000 x 100	200	45 - 51	1	10
		2000 x 1000 x 200	400	91 - 101	1	5
BM 5030		1500 x 500 x 100	75	22.5	1	16
		1500 x 500 x 200	150	45	1	8
		2000 x 500 x 100	100	30	1	16
BM 5185		1500 x 500 x 50	37.5	17 - 18	2	40
		1500 x 500 x 100	75	35 - 36	1	16
BM 5440		1500 x 500 x 25	18.75	9 - 10	4	64
		1500 X 500 X 50	37.5	18 - 19	2	32
		1500 x 500 X 75	56.25	28 - 29	1	16
		1500 x 500 x 100	75	37 - 38	1	16
BM 5460		1500 x 500 X 25	18.75	13 - 14	4	64
		1500 X 500 X 50	37.5	26 - 27	2	32
		1500x500x75	56.25	39 - 40	1	16
		1500 x 500 x 100	75	52 - 53	1	16
		1500 x 500 x 150	112.5	78 - 79	1	16
		1500 X 500 X 200	150	104 - 105	1	8
BM 5470		1500 x 500 x 50	37.5	28 - 29	2	32
		1500 x 500 x 100	75	56 - 57	1	16
BM 5055		1500 x 500 x 50	37.5	28	2	5
		1500 x 500 x 100	75	56	1	5
BM 5172		1000 x 500 x 50	25	30 - 31	2	24
		1000 x 500 x 75	37.5	45 - 46.5	1	12
		1000 x 500 x 100	50	60 - 61	1	12
BM 5272		1000 x 500 x 50	25	35	2	24
		1000 x 500 x 75	37.5	52.5	1	12
		1000 x 500 x 100	50	70	1	12
BM 5273		1000 x 500 x 50	25	37.5	2	24
		1000 x 500 x 100	50	75	1	12
BM 5112		1000x400x50	20	30	2	24
		1000 x 400 x 100	40	60	1	12
BM 5166		750 x 500 x 50	18.75	31 - 32	2	24
		750 x 500 x 100	37.5	63 - 64	1	12
RS 470		750 x 500 x 50	18.75	30 - 32	2	24
		750 x 500 x 100	37.5	61 - 64	1	12
BM 5266		750 X 500 X 50	18.75	31 - 32	2	24
		750 x 500 x 100	37.5	63 - 64	1	12

User Guide

		Key properties	Styling/ Design	Models / Data Control Models	Prototypes / small series	Foundry Industry	Ceramics Industry	Various	
Colour	Density	Program proving, Design studies, supporting structures for paste etc	Exterior and Interior cubings, presentation models, wind turbine models	Job 1, Tryout, hammer tools, laminating tools, PIM casting moulds, metalforming, welding jigs, P-Cubing, thermoplast forming	Pattern plates core boxes, models, negatives and support tools	Models production and working moulds, negatives and support tools	Pre-preg lay up tools		
White	0.08	light, fine porous	○	●					BM 5108
Apricot	0.24	smooth surface	○	●	●				BM 5025
Sienna	0.3	surface structure	○	●					BM 5030
Apricot	0.47	and mechanical properties increase	○	●					BM 5185
Brown	0.5	density	●	○					BM 5440
Brown	0.7	excellent surface	●	○		●	●	●	BM 5460
Brown	0.75	heat resistant		○		●	●	○	BM 5470
Green	0.72 - 0.75	abrasion resistant			○	○	○		BM 5055
Green	1.2	abrasion resistant and low CTE			○	○	○		BM 5172
Olive	1.4	abrasion resistant			○	○	○		BM 5272
Red	1.5	high impact resistant			○	○	○		BM 5273
Grey	1.5	excellent strength		○	○				BM 5112
Ivory	1.7	good Compressive strength, low CTE		○	○	●			BM 5166
Grey/ brown	1.6 - 1.7	excellent Compressive strength, high heat deflection temperature		○	○	●			RS 470
Dark grey	1.7			○		●		●	BM 5266

○ best choice ● possible choice