

RenShape® BM 5460 Tooling Board

Product Description

Polyurethane tooling board

Applications

- Master Models
- Cubing Models
- Patterns

Features

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

Typical Properties

Property	Units	Limits	Test Method
Appearance	n.a.	Brown	Visual
Density	g/cm ³ (lb. / gal.)	0.7 (5.83)	ISO 1183
Hardness	Shore D	60 - 65	ISO 868
Coefficient of thermal expansion	10 ⁻⁶ K ⁻¹ (in/in/°F)	50 - 55 (27.8 - 30.°)	ISO 11359
Deflection temperature	°C (°F)	75 - 80 (167 - 176)	ISO 75
Compressive strength	MPa (psi)	20 - 25 (2,900 - 3,625)	ISO 604
Compressive modulus	MPa (ksi)	910 - 960 (132 - 139)	ISO 604
Flexural Strength	MPa (psi)	25 - 30 (3,625 - 4,350)	ISO 178

Bonding

Ren-Weld® 103 System

Mix Ratio by weight: 100 Resin to 26 Hardener
 By volume: 100 Resin to 28 Hardener

Property	Units	Limits	Test Method
Color	n.a.	Resin: Light blue Hardener: Clear Amber Cured: Light Yellow	Visual
Density	g/cm ³ (lb. / gal.)	Resin 1.10 (9.16) Hardener: 1.04 (8.66)	ASTM D-1963
Mixed Viscosity	cp.	2,100	ASTM D-2393
Gel time (160 g mass)	minutes	~20	ASTM D-2471

Repair

Quik-Fil System

Mix ratio by weight: 100 Resin to 1.5 Hardener

Board Sizes, Weights, & Volumes

2" x 24" x 60"	72 LBS	20 board feet
3" x 24" x 60"	108 LBS	30 board feet
4" x 24" x 60"	143 LBS	40 board feet

Milling

RenShape® BM 5460 board temperature should preferably be between 20 °C and 25° C (68 °F and 77 °F) for optimum results.

Storage

When stored flat in a dry place in their original sealed packaging at a temperature between +2 °C and +40 °C (+36 °F and 104 °F), the RenShape® BM 5460 boards have a 10 year shelf life from date of manufacturing. The product should not be exposed to direct sunlight.

Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!

Refer to SDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

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