

## CMT Materials REN Shape® 460 Prototype Tool & Precision Modeling Board

Category : Polymer

**Material Notes:**

REN Shape 460 is a moderate density precision modeling board that features a lower coefficient of thermal expansion to provide enhanced dimensional stability over a broader temperature range than other modeling boards. REN Shape 460 provides the same excellent definition and accuracy for which the REN Shape family of products is well known. Machinable with carbide cutters, REN Shape 460 features properties including: Ultra-fine Surface Finish Outstanding Resistance to Shrinkage and Warping Superior Reproduction of Intricate Detail Applications: REN 460 applications may include temporary or throw away master models, styling and visual models, prototypes and prototype foundry patterns, vacuum form molds, architectural and automotive die models, tooling aids and fixtures, and other applications requiring fast machining and good model surfaces. Information Provided by CMT Materials, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMT-Materials-REN-Shape-460-Prototype-Tool-Precision-Modeling-Board.php](http://www.lookpolymers.com/polymer_CMT-Materials-REN-Shape-460-Prototype-Tool-Precision-Modeling-Board.php)

Physical Properties	Metric	English	Comments
Density	0.769 g/cc	0.0278 lb/in <sup>3</sup>	ASTM D-792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D-2240
Tensile Strength, Ultimate	12.4 MPa	1800 psi	ASTM D-638
Flexural Strength	25.5 MPa	3700 psi	ASTM D-790
Flexural Modulus	1.28 GPa	185 ksi	ASTM D-790
Compressive Strength	15.2 MPa	2200 psi	ASTM D-695
Compressive Modulus	1.25 GPa	181 ksi	ASTM D-695

Thermal Properties	Metric	English	Comments
CTE, linear	53.8 $\mu\text{m}/\text{m}\cdot\text{°C}$	29.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D-3386
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Glass Transition Temp, Tg	104 °C	219 °F	ASTM D-4065

Descriptive Properties	Value	Comments
Color	Light Brown	

**Contact Songhan Plastic Technology Co.,Ltd.**Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China