

CMT Materials REN Shape® 450 Prototype Tool & Modeling Board

Category : Polymer

Material Notes:

REN Shape 450 is the preferred modeling board for pattern makers throughout the world. The outstanding dimensional stability and its ability to hold precise tolerances even after exposure to heat have also made this material a favorite of thermoformers for prototype applications. REN Shape 450 is easily hand carved or CNC machined with minimal cutter wear. Important features include: Superior edge definition, Low shrinkage and water absorption, Good quality surface finish. Applications: REN 450 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-450-Prototype-Tool-Modeling-Board.php

Physical Properties	Metric	English	Comments
Density	0.657 g/cc	0.0237 lb/in ³	ASTM D-792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D-2240
Tensile Strength, Ultimate	15.9 MPa	2300 psi	ASTM D-638
Flexural Strength	27.6 MPa	4000 psi	ASTM D-790
Flexural Modulus	0.993 GPa	144 ksi	ASTM D-790
Compressive Strength	19.3 MPa	2800 psi	ASTM D-695
Compressive Modulus	0.931 GPa	135 ksi	ASTM D-695

Thermal Properties	Metric	English	Comments
CTE, linear	64.8 µm/m-°C	36.0 µin/in-°F	ASTM D-3386
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Glass Transition Temp, Tg	96.1 °C	205 °F	ASTM D-4065

Descriptive Properties	Value	Comments
Color	Light Brown	

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