

CMT Materials REN Shape® 5008 Vacuum Forming Tooling Board

Category : Polymer

Material Notes:

REN SHAPE 5008 is a tooling board specifically designed for use in vacuum forming. It is designed for use up to 250°F and is well suited for building vacuum forming molds as well as master models, lay-up tools for prepreg curing, and other heat resistant tooling. This moderate density epoxy system features a low coefficient of thermal expansion for outstanding accuracy and dimensional stability. REN SHAPE 5008 also offers the following: Good Machinability Superior Edge Definition and Dimensional Stability Outstanding Surface Finish Applications: REN SHAPE 5008 applications may include prototype and production vacuum forming molds, temporary intermediate-temperature master and lay-up tools and master models for composite parts. Information Provided by CMT Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMT-Materials-REN-Shape-5008-Vacuum-Forming-Tooling-Board.php

Physical Properties	Metric	English	Comments
Density	0.673 g/cc	0.0243 lb/in ³	ASTM D-792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D-2240
Tensile Strength, Ultimate	24.1 MPa	3500 psi	ASTM D-638
Flexural Strength	31.7 MPa	4600 psi	ASTM D-790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D-790
Compressive Strength	56.5 MPa	8200 psi	ASTM D-695
Compressive Modulus	2.41 GPa	350 ksi	ASTM D-695

Thermal Properties	Metric	English	Comments
CTE, linear	32.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	18.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D-3386
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Glass Transition Temp, Tg	142 °C	287 °F	ASTM D-4065

Descriptive Properties	Value	Comments
Color	Light Blue	

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