

CMT Materials REN Shape® 472 Machinable Board for Prototype Tooling & Assembly Fixtures

Category : Polymer , Thermoset , Polyurethane, TS

Material Notes:

RenShape 472 is a polyurethane-based board designed for CNC machining of production grade checking and assembly fixtures. It may also be used in prototype thermoforming and vacuum forming tooling applications, providing excellent definition and dimensional stability at elevated temperatures. RenShape 472 is a moderate density, neutral-colored board with enhanced dimensional stability and excellent toughness. RenShape 472 features properties including: Ultra-fine Surface Finish High Flexural Strength Outstanding Resistance to Shrinkage and Warping Tough and Durable Applications: REN 472 applications may include prototype thermoform and vacuum form molds, foundry patterns, and dimensionally stable tooling aids and fixtures. Information Provided by CMT Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMT-Materials-REN-Shape-472-Machinable-Board-for-Prototype-Tooling-Assembly-Fixtures.php

Physical Properties	Metric	English	Comments
Density	0.881 g/cc	0.0318 lb/in ³	ASTM D-792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	ASTM D-2240
Tensile Strength, Ultimate	48.3 MPa	7000 psi	ASTM D-638
Flexural Strength	65.8 MPa	9540 psi	ASTM D-790
Flexural Modulus	2.87 GPa	416 ksi	ASTM D-790
Compressive Strength	75.2 MPa	10900 psi	ASTM D-695
Compressive Modulus	3.17 GPa	460 ksi	ASTM D-695

Thermal Properties	Metric	English	Comments
CTE, linear	46.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	25.8 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D-3386
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Glass Transition Temp, Tg	120 °C	248 °F	ASTM D-4065

Descriptive Properties	Value	Comments
Color	Light Grey	

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