

CMT Materials REN Shape® 5169 Foundry Pattern Board

Category: Polymer

Material Notes:

REN SHAPE 5169 is an extremely tough, abrasion resistant board for use in CNC-machining foundry patterns, core boxes and other tools. It can be milled with hardened-steel cutters. The material has found extensive use in the fabrication of prototype molds for clear, thin-gage thermoplastic sheets. Resultant parts show excellent transparency results. REN SHAPE 5169 features these unique qualities: Excellent Impact and Wear ResistanceSuperior Edge Definition and Dimensional StabilityPolishable to a High LusterGood Compressive and Tensile StrengthTough and ResilientApplications: REN SHAPE 5169 applications may include prototype thermoforming molds, prototype and production foundry patters, tooling aids and fixtures, and metal forming tools. Information Provided by CMT Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMT-Materials-REN-Shape-5169-Foundry-Pattern-Board.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in³	ASTM D-792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D-2240
Tensile Strength, Ultimate	62.1 MPa	9000 psi	ASTM D-638
Flexural Strength	96.5 MPa	14000 psi	ASTM D-790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D-790
Compressive Strength	60.7 MPa	8800 psi	ASTM D-695
Compressive Modulus	2.52 GPa	366 ksi	ASTM D-695
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	73.4 μm/m-°C	40.8 μin/in-°F	ASTM D-3386
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Glass Transition Temp, Tg	96.7 °C	206 °F	ASTM D-4065

Descriptive Properties	Value	Comments
Color	Red	

Contact Songhan Plastic Technology Co.,Ltd.



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