



Product Data

RenShape[®] 5020

Low-Density Styling Board

RenShape 5020 is a light gray colored, syntactic polyurethane board. RenShape 5020 has a moderately low density of approximately 10 pounds per cubic foot. RenShape 5020 machines very easily and finishes to a very good surface. The product is useful as a material for hand working and CNC machining styling and temporary master models. Advantages include:

- Easy to handwork and machine
- Non-abrasive
- Excellent hardness (Shore D 27)
- Very fast cutting speeds
- Excellent edge definition
- Good dimensional stability

Applications include temporary and architectural master models, styling models and prototypes, visual models, NC tape proofing, and other applications requiring fast machining and good model surfaces.

Boards are currently available in 2, 4 and 8 inch thickness by 24 inches wide by 96 inches long.

ACCESSORIES:

Adhesive
Ren-Weld[®] 103

Repair Paste
Ren Patch[®] 440

TYPICAL PROPERTIES*

	<u>ASTM Method</u>	<u>Cure Value</u>
Color	Visual	Light gray
Density, lb/ft ³ (g/cm ³)	D-792	10 (.16)
Tensile Strength, psi	D-1621	370
Compressive Strength, 0.2% offset psi	D-1623	360
Flexural Strength		330

*Tested @ 77°F (25°C) unless otherwise noted.

NOTE: These physical properties are reported as typical test values obtained by our test laboratory. If assistance is needed in establishing product specifications, please consult with our Product Management Department.

MACHINING	<u>Roughing Speed</u> 2,000 RPM	<u>Roughing Feed</u> 100 IPM	<u>Finishing Speed</u> 15,000 RPM	<u>Finishing Feed</u> 200 IPM
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Cutters: Roughing – 1” Hog Ball End Mill 4-Flute HS Steel 8% Cobalt
Finishing – 5/8” Ball End Mill 2-Flute Carbide

Depth: Roughing – varied from 1/4” to 2-1/2” deep with a 40% step over
Finishing – 1/8” deep leaving 0.002” scallop height

PRODUCT SIZES: RenShape 5020
24 x 96 inches (approximate)
2, 4 or 8 inches thick, top and bottom surfaces are sanded.

SAFETY: Do not use or handle this product until the Material Safety Data Sheet has been read and understood.

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