



RenShape® BM 5173 – polyurethane board material

Applications	Properties
<ul style="list-style-type: none"> • pattern plates • core boxes • tooling jigs 	<ul style="list-style-type: none"> • excellent machinability • high abrasion resistance • excellent edge stability • high impact resistance • good heat resistance

Technical data (measured average values)		
Density approx.	1300 – 1370 kg/m ³	
Colour	blue	
Compressive strength	90 - 95 MPa	DIN EN ISO 604
Bending strength	100 - 105 MPa	DIN EN ISO 178
Linear thermal expansion coefficient temperature from approx. 25 - 70 °C	73 - 78 x 10 ⁻⁶ · K ⁻¹	according to DIN 53752
Shore hardness	80 - 85 Shore-D	DIN 53505
Deflection temperature	80 - 85 °C	

Standard dimensions	1000 x 500 x 50 mm 1000 x 500 x 75 mm 1000 x 500 x 100 mm	1500 x 500 x 50 mm 1500 x 500 x 75 mm 1500 x 500 x 100 mm
Storage	The boards must be stored dry, on a flat underground, at room temperature! Strong temperature differences during storage and transport should be avoided.	
Machining	Before machining, the boards should acclimatise at a temperature of 18 - 25 °C. The RenShape® materials can be machined with all standard wood and metal working machines. The used milling cutters should be made of carbide. Solid carbide for small milling cutters and hard metal carbide blades for larger milling cutter diameters. The geometry of the cutting tools is the same as for the machining of aluminium. However, we recommend that you test your own machines in order to get the best possible results.	
Working and safety recommendations	Please read the material safety data sheet for all necessary information on health and safety at work and the general safety recommendations.	
Waste disposal	After prior consultation of the responsible authorities (waste management company, district, trade supervision office, etc.), cured PU foam can be disposed as household or commercial waste in most regions.	
Legal notice	All information about the material, the processing and machining are given without obligation to the best of our knowledge and are not to be taken as an assurance of the properties of the material or the processing and application possibilities in individual cases. The user must check the product himself for its suitability for the intended application. In all other respects our terms of sale apply, which can be viewed and downloaded at any time from our homepage www.obo-werke.de .	

OBO-Werke GmbH • Am Bahnhof 5 • 31655 Stadthagen • Germany

Phone ++49/5721/7801-0

email: info@obo-werke.de

www.obo-werke.de

Sitz der Gesellschaft: Stadthagen, Registergericht: Amtsgericht Stadthagen HRB 907 • Geschäftsführer: Kurt Hüther