

Prismacore board is a sustainable and lightweight natural fiber-based composite board engineered for the wide-format printing industry. It is composed of virgin and post-consumer recycled paper, bonded together with non-toxic adhesives. This Eco-friendly composition makes Prismacore board an environmentally responsible alternative to traditional materials like plastic and MDF.

Known for its versatility, Prismacore board exhibits a high strength-to-weight ratio, making it suitable for a wide range of applications. Despite its lightweight nature, Prismacore board maintains structural integrity, allowing for easy cutting, shaping, and customization. Due to its environmentally conscious production process and recyclable characteristics, Prismacore board has gained popularity as a sustainable choice for businesses and designers seeking Eco-friendly solutions without compromising on performance and durability.

## Benefits

- Sustainable
- Lightweight
- Strong
- Non-Toxic
- Customizable
- Versatile
- Direct Printable
- Flat-Packable
- Faster Production
- Easier Installations
- Labor Saving
- Cost Saving
- Reusable
- Reduced Waste

## Applications

- Point-of-Purchase Marketing
- Displays and Exhibits
- Interior Design
- Signage and Graphics
- Printed Products
- Temporary Structures
- Themed Environments
- Promotional Items
- Furniture
- Packaging
- Architectural Models
- Eco-Coffins
- DIY and Craft Projects



## Product Info Sheet

### Product properties

<b>Appearance</b>	The surface of the material is free of blisters, foreign matter, marks, etc. The color and finish is a commercially acceptable match to the customer approved master sample.			
<b>Printability</b>	<ul style="list-style-type: none"> <li>• Both sides show the same visual surface properties as well as print performance.</li> <li>• Excellent printability: solvent and UV digital.</li> </ul>			
<b>Board Thickness</b>	6mm, 10mm, 16mm (1/4», 3/8», 5/8»)			
<b>Board Sizes</b>	<ul style="list-style-type: none"> <li>• 1220 x 2440mm (4 x 8ft)</li> <li>• 1220 x 3050mm (4 x 10ft)</li> </ul>			
<b>Fire Testing</b>	<ul style="list-style-type: none"> <li>• No toxic fumes when burned.</li> <li>• Non-explosive.</li> <li>• Low fire load rating based on low calorific value when burning</li> </ul>			
<b>Converting Temperature</b>	<ul style="list-style-type: none"> <li>• Recommended application temperature range: 5° and 45°</li> <li>• Recommended room temperature for CNC cutting: 21° ± 3°</li> </ul>			
<b>Physical Properties</b>		<b>Weight</b>	<b>Crush Strength ASTM C - 03</b>	<b>Flexural Strength ASTM CM - 03</b>
	6mm	1,38 kg/m <sup>2</sup>	97 ton/m <sup>2</sup>	11kg
	10mm	1,65 kg/m <sup>2</sup>	97 ton/m <sup>2</sup>	25kg
	16mm	2,17 kg/m <sup>2</sup>	105 ton/m <sup>2</sup>	35kg
<b>Physical Properties</b>	<b>Test</b>		<b>Results</b>	
	<b>Low Temperature Resistance</b> Exposure to -5° C for 48 hours.		No visible changes	
	<b>High Temperature Resistance</b> Exposure to 75° C for 48 hours.		No visible changes	
<b>Humidity Resistance</b> ASTM C473: Vertical exposure in humidity cabinet for 48 hours 90 % humidity and 40° C		No visible changes, deformation, warping, swelling or fungi growth.		

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### Environmental Properties

<b>Eco-friendly</b>	<ul style="list-style-type: none"> <li>• All components are classified as non-hazardous according to the EEC Hazard Classification.</li> <li>• All components are not considered as chemical or biological hazards.</li> <li>• No volatile carcinogenic decomposition.</li> <li>• VOC (volatile organic compound) none to negligible—none less than 5 ppm</li> <li>• X-Board Print is classified as fully repulpable in normal paper and pulping lines.</li> </ul>
<b>Environmental management</b>	<ul style="list-style-type: none"> <li>• All products are 100% repulpable</li> </ul>
<b>Environmental parameters</b>	<p>The figures are based on methods and procedures of measurement approved by the local (or national) environmental regulators at the production site.</p> <p><u>Core Material</u> Water</p> <ul style="list-style-type: none"> <li>• COD 20.38 kg/tonne</li> <li>• N Tot 0.23 kg/tonne</li> <li>• P Tot 0.03 kg/tonne</li> </ul> <p>Air</p> <ul style="list-style-type: none"> <li>• SO<sub>2</sub> 5.25 kg/tonne</li> <li>• NO<sub>x</sub> 2.48kg/tonne</li> <li>• CO<sub>2</sub> (fossil) 1201 kg/tonne</li> </ul> <p>Solid waste landfilled 194 BDkg/tonne Purchased electricity consumption/tonne of final product 652kwh This product contains biomass carbon, equivalent to <b>1641 kg Co<sub>2</sub> per tonne of product.</b></p> <p><u>Liner Material</u> Fiber Sources:</p> <ul style="list-style-type: none"> <li>• Hardwood</li> <li>• Recovered fiber</li> </ul> <p>Product Certification:</p> <ul style="list-style-type: none"> <li>• FSC Mix Source</li> <li>• FDA 21 CFR 176.170 ( Product meets requirement for direct food contact)</li> </ul> <p><u>Adhesives</u></p> <ul style="list-style-type: none"> <li>• Not flammable in wet state</li> <li>• Not explosive</li> <li>• Not hazardous according to Regulation (EC) No 1272/2008 (CLP)</li> <li>• Complies with regulation (EC) No. 1907/2006 (REACH)</li> </ul>