

**MARINE TIGERBOARD®**  
UV Stabilized Polymer

**plastruct polyzone**

*The world of plastics at your door.*

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**PHYSICAL PROPERTIES**

Marine TigerBoard® UV stabilized polymer is primarily a high density polyethylene (HDPE) resin combined with additives to create a specialize product mainly for the marine industry. Its unique rigidity and durable lightly textured finish provide a aesthetically pleasing material that is easily machinable. Almost zero water absorption makes this resin a practical outdoor material. Marine TigerBoard® is also FDA approved for food contact.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm3	0.956
Tensile strength at yield	ASTM D-638	psi	4279
Tensile modulus	ASTM D-638	psi	n/a
Elongation at yield	ASTM D-638	%	16
Elongation at break	ASTM D-638	%	590
Tensile impact	DIN 53448	ft-lbs/in2	180
Flexural modulus	ASTM D-790	psi	205,000
Flexural strength	ASTM D-790	psi	n/a
Izod impact	ASTM D-4020	ft-lbs/in2	1.1
IZOD impact notched	ASTM D-2240	ft-lbs/in2	n/a
Compressive modulus	ASTM D-695	psi	n/a
Compressive deformation	ASTM D-621	% at 1000 psi	n/a
Melting point	ASTM D-3417	°F	267
Hardness	ASTM D-2240	Shore D	69
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	6.6 x 10 <sup>-5</sup>
Heat deflection temperature, 66 psi	ASTM D-648	°F	175
Max. operating temp.		°F	174
Volume Resistivity	ASTM D-257	Ohm-cm	>10 <sup>15</sup>
Surface Resistivity	ASTM D-257	Ohm	>10 <sup>15</sup>
Water absorption 24hrs.	ASTM D-570	%	0.0001

\*All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.

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