

Polymer Industries Densetec HDPE Marine Board

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Densetec Marine Board is specially formulated to withstand the rigors of harsh outdoor marine environments. It is UV-stabilized to resist damage and retain its beauty, even after years of direct sunlight. Increasingly, Densetec Marine Board is replacing wood and laminates in boating applications. It does not splinter, crack, delaminate, rot, swell, or absorb water like traditional materials. Information provided by Polymer Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Industries-Densetec-HDPE-Marine-Board.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D1505
ESCR 100% Igepal®	35 hour	35 hour	CO-630; Condition B; ASTM D1693
	45 hour	45 hour	CO-630; Condition A; ASTM D1693
Melt Index of Compound	0.25 g/10 min @Load 2.16 kg, Temperature 190 °C	0.25 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	2in (50mm) per min.; ASTM D638 Type 4
Elongation at Break	>= 600 %	>= 600 %	2in (50mm) per min.; ASTM D638 Type 4
Flexural Modulus	1.378 GPa	199.9 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	126 µm/m-°C	70.0 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Brittleness Temperature	<= -84.0 °C	<= -119 °F	ASTM D746
Flammability, UL94	HB	HB	

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