

Polymer Industries Densetec HDPE Playground Board

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

Material Notes:

The versatile properties of Densetec Playground Board make it virtually vandal resistant. The UV stabilizers added to the material make the colors fade-resistant and the standard properties of the HDPE used in the production of Densetec Playground Board make it weather-resistant and the perfect choice for outdoor environments. Information provided by Polymer Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Industries-Densetec-HDPE-Playground-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 @Temperature 20.0 °C	70.0 µin/in-°F @Temperature 68.0 °F	ASTM E831
Brittleness Temperature	<= -84.0 °C	<= -119 °F	ASTM D746
Flammability, UL94	HB	HB	

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