



MULFORD
PLASTICS
delivering solutions

PLAYGROUND BOARD

Ralloy® Playground Board

Ralloy Playground Board is an ideal substrate for all outdoor environments. A variety of bright contrasting colours make it perfectly suited where high impact colours are required. Because the colour is embedded in the sheet, it never needs painting. This material lasts much longer than wood. The versatile properties of Ralloy Playground Board make it virtually vandal resistant. The UV stabilisers added to the material make the colours fade-resistant and the standard properties of the HDPE used in the production of Ralloy Playground Board make it weather-resistant and the perfect choice for outdoor environments. Design potential is unlimited with Ralloy Playground Board. Mulford Plastics welcomes custom orders for machining of this material. Standard sheet size is 2440x1220 with a gauge range from 6-25mm. Standard colours are: Red, Green, Yellow, Black, Blue, Beige, White. Custom colour runs can be made based on a volume requirement.

Key Features

- Easily cleaned
- Graffiti resistant
- UV stabilised
- Resists scratches
- Easily fabricated
- Will not crack or chip
- Never needs painting

Product Applications

- Signs
- Benches
- Playground panels
- Street furniture
- Tables
- Shelves
- Displays
- Council signage

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TECHNICAL DATA SHEET

PHYSICAL	Typical Values		
	ASTM	English Units	Metric Units
Density Melt Index, Condition 190°C / 2.16 kg Polyethylene Classification	D1505 D1238 D4976	59.6 lbs/ft ³ - Group 2, Class 3, Grade 5	0.955 g/cc 0.25g/10min Group 2, Class 3, Grade 5
MECHANICAL PROPERTIES Ultimate Elongation Tensile Impact Strength Notched Izod Impact Strength Compressive Stress @ Yeild ESCR, Condition A (10% Igepal), F50 ESCR, Condition B (10% Igepal), F50 Durometer Hardness Flexural Modulus Coefficient of Friction, Static Coefficient of Friction, Kinetic	D638 D638 D1822 D256 D695 D1693 D1693 D2240 D790 D1894 D1894	4000 psi > 600% 70 ft-lbf/in 2.99 ft-lbf/in 1,500 psi 45 hours 35 hours 64 Shore D 200,000 psi 0.31 0.22	27.6 MPa > 600% 147 KJ/m ² 159 J/m 10.3 MPa 45 hours 35 hours 64 Shore D 1379 MPa 0.31 0.22
THERMAL PROPERTIES Coefficient of Linear Thermal Expansion Decomposition Temperature Vicat Softening Temperature Heat Deflection Temperature @ 66 psi Brittleness Temperature Glass Transition Temperature Continous Use Temperature Thermal Conductivity Burn Rate Ignition Temperature, Flash Conditions Ignition Temperature, Self Ignition Cond. Flame Spread Smoke Developed Fire Rating	E831 Union Carbide D1525 D648 D746 Union Carbide - Private Test D635 D1929 D1929 E84 Tunnel Test E84 Tunnel Test Underwriters Labs	7 x 10 ⁻⁵ in/in/°F ~ 650°F 257°F 171°F < -120°F -193°F -100°F to 180°F 2.5 Btu-in/h-ft ² -°F 1 in/min 645°F 660°F 98 350 UL94HB	1.26 x 10 ⁻⁴ cm/cm/°C ~ 345°F 125°C 77°C < -84°C -125°C -73° to 82°C . 35 W/m - °C 25.4 mm/min 341°C 349°C 98 350 UL94HB
ELECTRICAL PROPERTIES Dielectric Strength Dielectric Constant Volume Resistivity	D149 D150 D257	510 V.mil 2.35 > 2.3 x 10 ⁻⁵ ohm-in	20.1 KV/mm 2.35 > 6 x 10 ⁻⁵ ohm-cm

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Mulford International nor any of their suppliers assume any liability for use of information presented.

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