

HDPE

High density polyethylene plastic is most commonly known as HDPE sheet plastic. This thermoplastic is made from ethylene molecules and is known to be both lightweight and strong. With more companies embracing sustainability initiatives, HDPE sheet popularity has skyrocketed as it can cut down on the materials used to produce and package products due to its weight and strength, as well as being recyclable. HDPE is extremely lightweight yet durable and can be easily moulded and transformed into just about any shape or design. It is both chemical and impact resistant, and is also resistant to rotting, insects, mildew and mould. It demonstrates good weatherability and does not shatter, rather it "bounces" back.

Typical Property Values

Property	Item	Test Method	Units	Result
Physical	Melt Flow Index, MFI	ASTM D1238	g/10min	0.2
	Melt Flow Index, MFI	ASTM D1238	g/10min	18
	Density	ASTM D1505	g/cm ³	0.948
Mechanical	Tensile Strength at Break MD/TD	ASTM D882	kg/cm ²	540/400
	Ultimate Elongation MD/TD	ASTM D882	%	350/500
	1% Secant Modulus MD/TD	ASTM D882	kg/cm ²	9300/9500
	Elmendorf Tear MD/TD	ASTM D1922	g/micro m	0.3/4
	Dart Impact Strength	ASTM D1709	g/micro m	8
Other	Melt Temperature		°C	180-220
	BUR			4:01
	Frost Line Height			7-12 times die diameter

HDPE Specifications

Property	Specifications
Thickness	1.0mm - 12.0mm
Max Width	1220mm
Length	No Limit (sheet) / Standard Size 1.22x1.83 or 1.22 x 2.44
Colour	Natural or custom colours available upon request

Remarks

- The data presented above represents values from our testing of the material. It is the responsibility of the user to test and confirm our materials are suitable for their intended applications. All information and technical assistance is given without warranty or guarantee and is subject to change without notice.
- Unless otherwise agreed to in writing, all products are sold strictly pursuant to our standard conditions of sale.
- Please contact your Optima+ sales representative for any questions or enquiries regarding special applications.

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The Plastics Sheets Specialist