

Typical properties of UHMWPE

Guide only. The values shown are compiled from third party suppliers and should be used as a guide only.

Our outrigger pads are made from ultra high molecular weight polyethylene (UHMWPE), a tough, lightweight plastic with high wear resistance and very low water absorption.

Property	Typical value / feature	What it tells you
Density	0.93-0.95 g/cm³	Lightweight material for handling. Individual pad weights are listed in our selection guide.
Tensile strength	≥ 30 MPa	Resistance to pulling forces within the material.
Bending stiffness (flexural modulus)	Approx. 600 MPa	Describes material stiffness. Pad size, thickness and support also affect bending.
Hardness	Shore D 60-70	Indicates surface hardness and resistance to indentation.
Impact resistance	High	A tough material that resists impact damage during handling.
Water absorption	< 0.01%	Very low moisture uptake.
Abrasion resistance	High	Resistance to wear from surface contact.
UV resistance	UV protected	Protection against ultraviolet exposure during outdoor use.
Chemical resistance	Good	Resistant to many acids and alkalis. Check compatibility with specific chemicals.

Choosing the right pad

Use these typical material properties as a guide. They do not establish a pad load rating. For nominal capacities and setup checks, read our Outrigger Pad Selection and Use Guide. **Confirm pad size and suitability with your equipment manufacturer or a qualified engineer for your machine and site.**

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