

HP-CORE

- non-woven fabric / corematerial -

HP-CORE is a high performance non-woven fabric developed specifically for the Fibre Reinforced Plastics (FRP) industry.

Designed with a micro-cellular structure, which provides volume with a very low weight and voids that allow easy absorption of resin, HP-CORE is ideal for use as a core material in FRP sandwich constructions with polyester and epoxy resin.

Advantages of using HP-CORE:

Easy to use:

The application does not require sophisticated equipment or specific tooling.

Versatile:

HP-CORE adjusts to virtually any mould shape, making it quick and practical. Can be used as both a core material and a superior thermal and acoustic insulator.

Lightweight:

Provides increased thickness with low weight.

Shear strength:

The fabric will not be damaged when applied with a conventional laminating roller.

Rigidity:

When used as a core, helps build up thicker laminates with a very high rigidity.

Lower production costs:

Less down-time required, as fewer layers of resin and fibreglass mat are required. An average of 20% less resin consumption in a laminate may be achieved. VOC emissions are also reduced. Overall, the costs savings for the FRP industry can be quite significant.

Areas of application:

Swimming pool, boat construction, vessel and mould building, Automotive parts (chassis, body ski racks), Ski and Snowboards.

Technical characteristics:

	Product No.:	HP-CORE-2	HP-CORE-3	HP-CORE-4	HP-CORE-5
Width	cm	100	100	100	100
Length	m	80	50	40	30
Thickness dry	mm	1,7 - 2,4	2,7 - 3,6	3,5 - 4,6	4,8 - 5,4
Thickness wet	mm	2,2 - 2,8	3,3 - 3,9	3,8 - 4,9	5,0 - 5,6
Dry weight	g/m ²	80 - 105	125 - 155	160 - 185	230 - 270
Resin consumption	kg/m ²	1,1 - 1,3	1,7 - 1,9	2,3 - 2,5	2,9 - 3,1