

# DL-PL-265-100

## 265g Plain Weave Diolen Cloth



### Key Features

- High impact resistance
- Good abrasion resistance
- Good elongation to break

### Description

Diolen is a low-cost, high tenacity polyester fibre with excellent impact and abrasion properties making it a popular choice for use in high impact applications, such as canoes, kayaks and life rafts.

This natural colour, plain weave 265gsm cloth would typically be used in conjunction with glass fibre reinforcement as a cost-effective way to add impact and abrasion strength to a laminate.

### Using Diolen

For boat construction, Diolen is typically combined with glass fibre (either chopped strand mat or woven glass rovings) to add impact strength to an otherwise brittle construction.

Diolen can be used with most resin systems including polyester, vinylester and epoxy, although to get the best performance epoxy resin would always be the first choice.

Diolen will wet-out and is laminated in a very similar way to Kevlar and is totally compatible with any laminating process including wet-lay, vacuum bagging, resin infusion and RTM.

### Cutting and Trimming

Diolen's high elongation-to-break properties and abrasion resistance mean that it can be difficult to trim the cured laminate. Traditional cutting tools will tend to leave a 'furry' edge which can be removed using a fine grit abrasive sanding pad or knife blade.

### Specification

Fabric Properties:

Property	Unit	Value
Fibre	-	Diolen 164S f360
Colour	-	White
Format	-	Woven Fabric
Weave Type	-	1x1 Plain
Width	mm	1000
Areal Weight	g/cm <sup>2</sup>	265
Thickness	mm	0.4
Consolidated Thickness	mm	0.3
Ends Count	/cm	3.4
Picks Count	/cm	3.4

Typical Fibre Properties for Diolen 164S:

Property	Unit	Value
Breaking Force	N	251
Breaking Tenacity	mN/Tex	739
Elongation at Break	%	14.0
Maximum Service Temp in Air	°C	150
Linear Density	DTex	3395

### Disclaimer

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Version 1.1  
Revised 05/06/2025

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