



# Durostone<sup>®</sup> UPM S1

POLYESTER GLASS LAMINATE

**Durostone UPM S1 is a specially formulated polyester glass composite designed for Switchboards and Switchgear.**

Offering a superior balance of mechanical and electrical properties, that surpasses GPO-3 and moulded polyester glass products.

Designed for use in electrical equipment as structural insulating components, such as busbar supports and cleats.

## Features

- Excellent electrical insulating properties
- Great mechanical strength
- High tracking resistance
- V0/3mm Flammability rating
- AS/NZS 61439 Compliant
- Glow Wire Test EN 60695-2-10 pass

## Applications

Structural supports in electrical equipment including switchboards and switchgear.

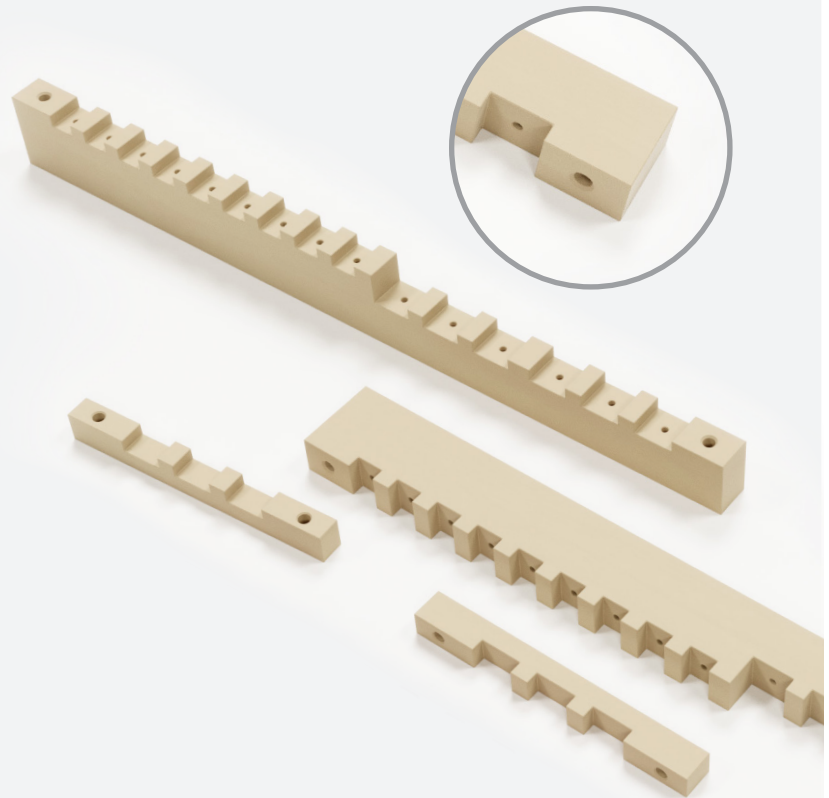
## Technical Information

**Material:** Glass Fibre Reinforced Polyester Resin

**Colour:** White

## Sizing and Machining

We provide a full machining and fabrication service, delivering fully-finished Switchboard components. Available for short-run or volume-based orders.



**Insulect Australia** | Customer Service

1300 446 565

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# Technical Information

Technical Data	Norm	Units	Value
<b>Mechanical</b>			
Specific Gravity	ISO 1183	g/cm <sup>3</sup>	1.85
Bending Strength (Perpendicular)	ISO 178	N/mm <sup>2</sup>	200
Modulus of Elasticity in Flexion (Perpendicular)	ISO 178	N/mm <sup>2</sup>	13,000
Compressive Strength RT (Perpendicular)	ISO 604	N/mm <sup>2</sup>	350
Compressive Strength RT (Parallel)	ISO 604	N/mm <sup>2</sup>	200
Impact Strength RT (Perpendicular)	ISO 179	kJ/m <sup>2</sup>	210
Delaminating Force RT (Parallel)	DIN 53463	N	2,800
Water Absorption	ISO 62	%	< 0.5
Tensile Strength (Parallel)	ISO 527	N/mm <sup>2</sup>	123
<b>Thermal</b>			
Coefficient of Linear Expansion (Parallel)	METTLER TMA	10 <sup>-6</sup> x K <sup>-1</sup>	15-30
Thermal Conductivity	DIN 52612	W/mK	ca. 0.29
Flammability	UL 94 V0	-	V0/3mm
	-	-	F0
	-	-	M1
Thermal Endurance	IEC 60216	T.I.	155
Insulation Class	IEC 60085	---	F
<b>Electrical</b>			
Electric Strength (Perpendicular)	IEC 60243	kV/mm	13
Track Resistance	IEC 60112	CTI	CTI 600 M
High Voltage Tracking Index	IEC 60587	min/2.5 kV	400



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