

FR Structural Laminate

MECHANICAL PROPERTIES				
Property	Value	Product Thicknesses		Test Method
		1 mm	2 mm	
Maximum Weight	Kg / m ²	< 1.4	< 2.6	Calibrated weighing scales
Compressive Strength	MPa	63	83	According to D695-15
Compressive Modulus	GPa	20.7	22.2	According to for 1mm & 2 mm
Flexural Strength	MPa	217.3	182.8	According to ISO 178: 2010 + A1: 2013
Flexural Modulus	GPa	11.9	11.4	According to ISO 178: 2010 + A1: 2013
Tensile Strength	MPa	107	118	According to BS EN ISO 527.4: 2013
Tensile Modulus	GPa	16.76	17.5	According to BS EN ISO 527.4: 2013
Density	g / cm ³	1.38	1.23	Acc. to BS EN ISO 1183-1:2012, Method A
Colour	-	Black		Visual
Working Range	° C	-196 to +1200		External and In-house testing
Fire Protection Time	Mins	> 60	>120	External and In-house testing
Standard Available Dimensional Size	cm	80 x 130		

Testing carried out by:-

UL Laboratories, Northwood, Illinois, USA

Warringtonfire, Holmesfield Road, Warrington, WA1 2DS, UK

RISE Research Institute, Fire Research Dynamics, Box 857, 501 15 Borås, Sweden

Intertek Wilton, Room D135, The Wilton Centre, Redcar , TS10 4RF, UK

Cambridge Fire Research, Brewery Rd, Pampisford, Cambridge CB22 3HG, UK

BRE Global, Reaction to Fire Testing, Bucknalls Lane, Garston, Herts, WD25 9XX, UK

Zoltek Carbon Fibre Test Laboratory, Hungary – Part of the Toray Group

CFP Composites in-house testing