

Chemical Designation

SAN (Styrene acrylonitrile)

Colour

natural

Density

1.24 g/cm³

Fillers

flax fibres

Main features

→ low density

Target Industries

→ automotive industry

→ sporting goods

The material is in the phase of further development. The characteristic values of this product may change.

General material information	parameter	value	unit	norm	comment
Fibre type		Flax fibres		-	
Fibre architecture		Twill 2/2		-	
Fibre areal weight		300	g/m ²	-	
Fibre volume content		45	%	-	
Resin weight content		47.7	%	-	
Areal weight finished product		573	g/m ²	-	
Material widths		1000	mm	-	
ply thickness (consolidated)		0.46	mm	-	

Mechanical properties	parameter	value	unit	norm	comment
Flexural strength		170	MPa	ISO 14125	1) (1) measured on pressed plate 2) measured on pressed plate
Modulus of elasticity (flexural test)		12000	MPa	ISO 14125	2)

Thermal properties	parameter	value	unit	norm	comment
Glass transition temperature		110	°C	DIN EN ISO 11357	(1) approximate value
Service temperature	short term	100	°C	-	
Service temperature	long term	90	°C	-	
Thermal expansion (CLTE)	in 0° and 90° direction	15	10 ⁻⁶ K ⁻¹	-	1)

Predrying	parameter	value	unit	norm	comment
Drying temperature		80	°C	-	
Drying time		6-8	h	-	

