

Chemical Designation

SAN (Styrene acrylonitrile)

Colour

natural

Density

1.75 g/cm³

Fillers

glass fibres

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

Main features

- very good dimensional stability
- very good mechanical strength
- low moisture absorption

Target Industries

- automotive industry
- mechanical engineering
- sporting goods

General material information	parameter	value	unit	norm	comment
Fibre type		E-Glass		-	
Fibre architecture		Twill 2/2		-	
Fibre areal weight		290	g/m ²	-	
Fibre volume content		45	%	-	
Resin weight content		34.6	%	-	
Areal weight finished product		443	g/m ²	-	
Material widths		1270	mm	-	
ply thickness (consolidated)		0.26	mm	-	
Mechanical properties	parameter	value	unit	norm	comment
Tensile strength		430	MPa	ISO 527-4	1) (1) measured on pressed plate
Modulus of elasticity (tensile test)		24000	MPa	ISO 527-4	2) (2) measured on pressed plate
Flexural strength		620	MPa	ISO 14125	3) (3) measured on pressed plate
Modulus of elasticity (flexural test)		22000	MPa	ISO 14125	4) (4) measured on pressed plate
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	5	10 ⁻⁶ K ⁻¹	-	1)
Predrying	parameter	value	unit	norm	comment
Drying temperature		80	°C	-	
Drying time		6-8	h	-	

