

Chemical Designation

SAN (Styrene acrylonitrile)

Colour

natural

Density

1.41 g/cm³

Fillers

carbon fibres

Main features

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

Target Industries

- automotive industry
- mechanical engineering
- 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		Carbon HT 3k		-	
Fibre architecture		Twill 2/2		-	
Fibre areal weight		245	g/m ²	-	
Fibre volume content		47	%	-	
Resin weight content		40.4	%	-	
Areal weight finished product		411	g/m ²	-	
Material widths		1270	mm	-	
ply thickness (consolidated)		0.29	mm	-	
Mechanical properties	parameter	value	unit	norm	comment
Flexural strength		410	MPa	ISO 14125	1) (1) measured on pressed plate
Modulus of elasticity (flexural test)		47000	MPa	ISO 14125	2) (2) 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	3	10 ⁻⁶ K ⁻¹	-	1)
Predrying	parameter	value	unit	norm	comment
Drying temperature		80	°C	-	
Drying time		6-8	h	-	

