Technical Specification Sheets

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Chemical Designation
PA 66 (Polyamide 66)

Colour
natural

Density
1.46 g/cm^3

Fillers
carbon fibres

Main features
- very good abrasion resistance
- very good mechanical strength

Target Industries
- automotive industry
- mechanical engineering
- oil and gas industry
- safety 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		200	g/m²	-		
Fibre volume content		50	%	-		
Resin weight content		39.5	%	-		
Areal weight finished product		330	g/m²	-		
Material widths		1270	mm	-		
ply thickness (consolidated)		0.23	mm	-		

Mechanical properties	parameter	value	unit	norm		comment
Flexural strength		810	MPa	ISO 14125	1)	(1) measured on pressed plate (2) measured on pressed plate
Modulus of elasticity (flexural test)		59700	MPa	ISO 14125	2)	

Thermal properties	parameter	value	unit	norm		comment
Glass transition temperature		47	°C	DIN EN ISO 11357		(1) approximate value
Melting temperature		260	°C	DIN EN ISO 11357		
Service temperature	short term	180	°C	-		
Service temperature	long term	110	°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	-	

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