TECACOMP PA66 CF40 black 1014832 - Compounds

→ good wear properties

→ good heat deflection temperature

→ good weldable and bondable

→ resistant to many oils, greases and fuels

Chemical Designation

PA 66 (Polyamide 66)

Colour black

Density

1.32 g/cm³

Fillers

carbon fibres

parameter	value	unit	norm		comment
	262	MPa	DIN EN ISO 527-1		
	26800	MPa	DIN EN ISO 527-1		
-	1,8	%	DIN EN ISO 527-1		-
	47	kJ/m ²	DIN EN ISO 179-1eU		
parameter	value	unit	norm		comment
	5 / 72	°C	-	1)	 (1) moist/dry - literature value (2) literature value (3) literature value (4) literature value
	260	°C	-	2)	
	255	°C	ISO-R 75 Method A	_	
short term	170	°C	-	3)	
long term	110	°C	-	4)	
parameter	value	unit	norm		comment
	10 ⁻¹	Ω*m	DIN EN ISO 3915		
parameter	value	unit	norm	_	comment
parameter	value	unit	norm		comment
	270 - 310	°C	-		
	80 - 110	°C	-		
	parameter short term long term parameter parameter	262 26800 1,8 47 parameter 5 / 72 260 255 short term 170 long term 110 parameter value 10 ⁻¹ parameter value parameter value 270 - 310	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	262 MPa DIN EN ISO 527-1 26800 MPa DIN EN ISO 527-1 1,8 % DIN EN ISO 527-1 47 kJ/m ² DIN EN ISO 527-1 47 kJ/m ² DIN EN ISO 527-1 9arameter value unit norm 5 / 72 °C - 260 °C - 260 °C - 255 °C ISO-R 75 Method A short term 170 °C - - long term 110 °C - parameter value unit norm 10°1 Ω*m DIN EN ISO 3915 parameter parameter value unit norm 270 - 310 °C - -	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

This material can be processed as a thermoplastic taking the normal technical provisions into account. The above mentioned information refers exclusively to the injection moulding process.

Processing should be carried out as gently as possible, in order to maintain the maximum fibre length in the component. Back pressure and injection rate should be adjusted to the component geometry accordingly. The optimum processing temperature depends upon the respective geometry of the moulded part and can be different from machine to machine.

Predrying	parameter	value	unit	norm	comment
Permissible residual moisture content		< 0,1	%	-	
Drying temperature		80 - 120	°C	-	
Drying time		4 - 8	h	-	

→ To achieve optimum mechanical properties, it is recommended to pre-dry the material with the above mentioned parameters.

Information on storage and shelf life: The granules must be stored in dry, normally tempered rooms and in closed containers. For moisture-sensitive materials, the granules must be sealed airtight. Protection against direct sunlight must be guaranteed. The granules are usually subject to the requirements of no shelf life limitation. Shelf Life may be limited by some additives.

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Version: AG

Main features → very high stiffness

→ low viscosity