

## TECACOMP PA46 MD22 TF11 natural 1015046 - Compounds

Chemical Designation

PA 46 (Polyamide 46)

Colour

natural

*Density* 1.43 g/cm<sup>3</sup>

Fillers

mineral filler, PTFE

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength		87	MPa	DIN EN ISO 527-1	
Modulus of elasticity (tensile test)		4100	MPa	DIN EN ISO 527-1	
Elongation at break (tensile test)		4,0	%	DIN EN ISO 527-1	·-·········
Impact strength (Charpy)		35	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	
Thermal properties	parameter	value	unit	norm	comment
Glass transition temperature		75	°C	DIN 53765	
Melting temperature		295	°C	DIN 53765	
Service temperature	short term	220	°C	-	·-·········
Service temperature	long term	130	°C	-	
Other properties	parameter	value	unit	norm	comment
Viscosity number	solution 0,005 g/ml sulphuric acid	170	ml/g	DIN EN ISO 307	
Processing parameter	parameter	value	unit	norm	comment
Cylinder/processing temperature		280 - 320	°C	-	
Mould temperature		80 - 150	°C	-	
Material temperature		300 - 320	°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.

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 - 90	°C	-	
Drying time	_	2 - 8	h	_	

<sup>→</sup> PA46 acts hygroscopic and can absorb moisture from the ambient atmosphere. On this account, conventional hot air dryers can't fulfil the required moisture level. In the case of PA46 it is recommended to use a dehumidified air dryer (dew point between - 30 and - 40 °C) or a vacuum dryer.

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<sup>→</sup> 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.