

TECACOMP PA66 LA natural 1015066 - Compounds

Chemical Designation

PA 66 (Polyamide 66)

Colour

natural

Density

1.1 g/cm³

Fillers

solid lubricant

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	50 mm/min	65	MPa	DIN EN ISO 527-1	
Modulus of elasticity (tensile test)	50 mm/min	2500	MPa	DIN EN ISO 527-1	
Elongation at break (tensile test)	50 mm/min	20	%	DIN EN ISO 527-1	
Impact strength (Charpy)	7,5 J	55	kJ/m ²	DIN EN ISO 179-1eU	
Thermal properties	parameter	value	unit	norm	comment
Glass transition temperature		5 / 72	°C	DIN 53765	1) (1) moist/dry
Melting temperature		260	°C	DIN 53765	
Service temperature	short term	170	°C	-	
Service temperature	long term	110	°C	-	
Other properties	parameter	value	unit	norm	comment
Bulk density		0,61	g/cm ³	EN ISO 60	
Viscosity number	solution 0,005 g/ml sulphuric acid	215	ml/g	DIN EN ISO 307	
Processing parameter	parameter	value	unit	norm	comment
Cylinder/processing temperature		250 - 300	°C	-	
Mould temperature		70 - 110	°C	-	
Material temperature		260 - 300	°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	°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.

Our information and statements reflect to current state of our knowledge and shall inform about the products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for the use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values that can be used primarily for comparison purposes for material selection. These values are within the normal tolerance range of product properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. Unless otherwise noted, these values were determined by tests on injection moulded samples, dry as moulded. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at ensingerplastics.com. Technical changes reserved.