

# TECACOMP POM AH GF30 natural 1056191 - Compounds

## Chemical Designation

POM-C (Polyacetal (Copolymer))

## Colour

natural

## Density

1.62 g/cm<sup>3</sup>

## Fillers

glass fibres

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength		52	MPa	DIN EN ISO 527-1	
Modulus of elasticity (tensile test)		6350	MPa	DIN EN ISO 527-1	
Elongation at break (tensile test)		3,5	%	DIN EN ISO 527-1	
Impact strength (Charpy)		18	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Glass transition temperature		- 60	°C	DIN 53765	
Melting temperature		165	°C	DIN 53765	
Service temperature	short term	140	°C	-	
Service temperature	long term	100	°C	-	
<i>Processing parameter</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Cylinder/processing temperature		170 - 230	°C	-	
Mould temperature		80 - 130	°C	-	
Material temperature		210 - 230	°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.

<i>Predrying</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Permissible residual moisture content		< 0,15	%	-	
Drying temperature		100 - 120	°C	-	
Drying time		3 - 4	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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