

TECACOMP POM AH blue 1018432 - Compounds

Chemical Designation

POM-C (Polyacetal (Copolymer))

Main features

→ food grade blue

Target Industries

→ food engineering

Colour

blue

Density

1.4 g/cm³

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	50 mm/min	55	MPa	DIN EN ISO 527-1	
Modulus of elasticity (tensile test)	50 mm/min	2400	MPa	DIN EN ISO 527-1	
Elongation at break (tensile test)	50 mm/min	62	%	DIN EN ISO 527-1	
Impact strength (Charpy)		150	kJ/m ²	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>Other properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Melt flow index (MFI)	190°C/2,16 kg	3,2	g/10 min	DIN EN ISO 1133	
<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 - 140	°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.

→ 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		< 0,1	%	-	
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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