

## TECACOMP POM TRM natural 1064527 - Compounds

### Chemical Designation

POM-H (Polyacetal (Homopolymer))

### Colour

natural

### Density

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

### Fillers

silicone oil, PTFE

### Main features

→ very good bearing and wear properties

### Target Industries

→ automotive industry  
→ mechanical engineering

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength		59	MPa	DIN EN ISO 527-1	
Modulus of elasticity (tensile test)		2500	MPa	DIN EN ISO 527-1	
Elongation at break (tensile test)		24	%	DIN EN ISO 527-1	
Notched impact strength (Charpy)		8	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Glass transition temperature		-60	°C	-	1) (1) literature value
Melting temperature		175	°C	-	2) (2) literature value
Heat distortion temperature		115	°C	ISO-R 75 Method A	(3) literature value
Service temperature	short term	150	°C	-	3) (4) literature value
Service temperature	long term	110	°C	-	4)
<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
surface resistivity		10 <sup>13</sup>	Ω	DIN EN 61340-2-3	
volume resistivity		10 <sup>11</sup>	Ω*m	DIN EN 61340-2-3	
<i>Other properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Water absorption	23 °C / 50 % relative humidity up to saturation	0,2	%	DIN EN ISO 62	
Molding shrinkage	longitudinal	2,8	%	DIN EN ISO 294-4	
Molding shrinkage	transverse	2,5	%	DIN EN ISO 294-4	
<i>Processing parameter</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
processing temperatures		180 - 220	°C	-	
Mould temperature		80 - 120	°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		< 0,05	%	-	
Drying temperature		100	°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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