

## TECACOMP PP ID grey 1052957 - Compounds

## Chemical Designation

PP (Polypropylene)

Colour grey

Density

1.25 g/cm<sup>3</sup>

## Fillers

detectable filler

## Main features

- → metal detectable
- → x-ray detectable
- → Explanation of food contact according to FDA and EU 10/2011 on request

Mechanical properties	parameter	value	unit	norm		comment	
Tensile strength		15	MPa	DIN EN ISO 527-1			
Modulus of elasticity (tensile test)		1100	MPa	DIN EN ISO 527-1		···	
Elongation at break (tensile test	·)	90	%	DIN EN ISO 527-1		<u>-</u>	
Thermal properties	parameter	value	unit	norm		comment	
Glass transition temperature		- 8	°C	-	1)	(1) literature value	
Melting temperature		165	°C	-	2)	(2) literature value (3) literature value (4) literature value	
Service temperature	long term	100	°C	-	3)		
Service temperature	short term	130	°C	-	4)		
Electrical properties	parameter	value	unit	norm		comment	
surface resistivity		10 <sup>14</sup>	Ω	DIN EN 61340-2-3			
volume resistivity		10 <sup>12</sup>	Ω*m	DIN EN 61340-2-3			
Other properties	parameter	value	unit	norm		comment	
Detectability	4 x 4 x 4 mm		mm Al	-	1)	(1) metal detectable (2) x-ray detectable	
Detectability	4 x 4 x 4 mm		mm Al	-	2)		
Molding shrinkage	longitudinal	1,5	%	DIN EN ISO 294-4			
Molding shrinkage	transverse	1,4	%	DIN EN ISO 294-4			
Melt flow index (MFI)	230 °C / 2,16 kg	20	g/10 min	DIN EN ISO 1133			
Processing parameter	parameter	value	unit	norm		comment	
processing temperatures		200 - 260	°C	-			
Mould temperature		40 - 100	°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		70 - 100	°C	-	
Drying time		2	h	-	

<sup>→</sup> To achieve optimum mechanical properties, it is recommended to pre-dry the material with the above mentioned parameters.

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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.