

TECACOMP PEEK 150 black 1015096 - Compounds

Chemical Designation

PEEK (Polyetheretherketone)

Colour

black

Density

1.32 g/cm³

Mechanical properties	parameter	value	unit	norm	comment	
Tensile strength	50 mm/min	105	MPa	DIN EN ISO 527-1		
Modulus of elasticity (tensile test)	50 mm/min	3500	MPa	DIN EN ISO 527-1		
Elongation at break (tensile test)	50 mm/min	15	%	DIN EN ISO 527-1		
Impact strength (Charpy)		n.B.	kJ/m ²	DIN EN ISO 179-1eU		
Thermal properties	parameter	value	unit	norm	comment	
Glass transition temperature		143	°C	DIN 53765		
Melting temperature		343	°C	DIN 53765		
Service temperature	short term	300	°C	-		
Service temperature	long term	260	°C	-		
Other properties	parameter	value	unit	norm	comment	
Melt flow index (MFI)	360 °C / 2,16 kg	18	g/10 min	DIN EN ISO 1133		
Bulk density		0,71	g/cm ³	EN ISO 60		
Processing parameter	parameter	value	unit	norm	comment	
Cylinder/processing temperature		360 - 400	°C	-		
Mould temperature		180 - 210	°C	-		
Material temperature		390 - 400	°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		< 0,02	%	-	
Drying temperature		140 - 160	°C	-	
Drying time		4 - 6	h	-	

[→] To achieve optimum mechanical properties, it is recommended to pre-dry the material with the above mentioned parameters.

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[→] 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.