

## TECACOMP PEI brown 1014839 - Compounds

Chemical Designation

PEI (Polyetherimide)

Colour

brown

Density 1.29 g/cm<sup>3</sup>

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	50 mm/min	110	MPa	DIN EN ISO 527-1	
Modulus of elasticity (tensile test)	50 mm/min	3200	MPa	DIN EN ISO 527-1	··············
Elongation at break (tensile test)	50 mm/min	30	%	DIN EN ISO 527-1	
Impact strength (Charpy)		120	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	
Thermal properties	parameter	value	unit	norm	comment
Service temperature	long term	170	°C	-	
Service temperature	short term	> 200	°C	<u>-</u>	
Other properties	parameter	value	unit	norm	comment
Melt flow index (MFI)	337°C / 5 kg	9	g/10 min	-	
Processing parameter	parameter	value	unit	norm	comment
Cylinder/processing temperature		350 - 410	°C	-	
Mould temperature		140 - 180	°C	-	·· <del>·······</del>
Material temperature	_	370 - 410	°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		150	°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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<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.