

## TECATEC PEI GW50 PL V01 natural - Composite Materials

### Kemisk beteckning

PEI (polyeterimid)

### Färg

Natur

### Densitet

1.9 g/cm<sup>3</sup>

### Fillers

glas fibrer

### Huvud egenskaper

- elektriskt isolerande
- inneboende flambeständighet
- mycket bra mekanisk styrka

### Målindustrier

- bilindustrin
- maskinteknik
- olje- och gasindustrin
- säkerhetsteknik
- sporting goods

The material is in the phase of further development. The characteristic values of this product may change.

General material information	parameter	värde	enhet	norm	anmärkning
Fibre type		E glass		-	
Fibre architecture		US 7781		-	
Fibre areal weight		296	g/m <sup>2</sup>	-	
Fibre volume content		50	%	-	
Resin weight content		33.7	%	-	
Areal weight finished product		446	g/m <sup>2</sup>	-	
Material widths		625x525	mm	others on request	
thickness		1-95	mm	-	
Fibre orientation		0-90°		others on request	
Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Draghållfasthet		450	MPa	ISO 527-4	
Elasticitetsmodul (dragprov)		24000	MPa	ISO 527-4	
Böjållfasthet		570	MPa	ISO 14125	
Elasticitetsmodul (böjningstest)		26000	MPa	ISO 14125	
Kompressionsstyrka		670	MPa	ISO 14126	
Kompressionsmodul		27000	MPa	ISO 14126	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		217	°C	-	(1) approximate value
Service temperatur	short term	200	°C	-	
Service temperatur	long term	180	°C	-	
termisk expansion	in 0° and 90° direction	10	10 <sup>-6</sup> K <sup>-1</sup>	-	1)
Förtorkning	parameter	värde	enhet	norm	anmärkning
Torktemperatur		150	°C	-	
Torktid		4-6	h	-	

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