

TECATEC PEI GW50 PL V01 natural -

Chemische benaming

PEI (Polyetherimide)

Kleur

natuurlijk na

Dichtheid

1.9 g/cm³

Vulstoffen

glasvezels

Belangrijkste eigenschappen

- elektrisch isolerend
- vlambestendig
- zeer goede mechanische sterkte

Doelgroepen

- automobiellindustrie
- mechanische ontwikkelingen
- olie,- en gasindustrie
- veiligheidstechniek
- Sportartikelen

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

General material information	Parameters	waarde	eenheid	norm	toelichting
Fibre type		E glass		-	
Fibre architecture		US 7781		-	
Fibre areal weight		296	g/m ²	-	
Fibre volume content		50	%	-	
Resin weight content		33.7	%	-	
Areal weight finished product		446	g/m ²	-	
Material widths		625x525	mm	others on request	
thickness		1-95	mm	-	
Fibre orientation		0-90°		others on request	
Mechanische eigenschappen	Parameters	waarde	eenheid	norm	toelichting
Treksterkte		450	MPa	ISO 527-4	
E-modulus (trek)		24000	MPa	ISO 527-4	
Buigsterkte		570	MPa	ISO 14125	
Elasticiteitsmodulus		26000	MPa	ISO 14125	
Drukvastheid		670	MPa	ISO 14126	
Compressie modulus		27000	MPa	ISO 14126	
Thermische eigenschappen	Parameters	waarde	eenheid	norm	toelichting
Glasovergangstemperatuur		217	°C	-	(1) Waarde ongeveer
Gebruikstemperatuur	short term	200	°C	-	
Gebruikstemperatuur	long term	180	°C	-	
Warmte-uitzetting	in 0° and 90° direction	10	10 ⁻⁶ K ⁻¹	-	1)
voordrogen	Parameters	waarde	eenheid	norm	toelichting
Droog temperatuur		150	°C	-	
Droogtijd		4-6	h	-	

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