

TECATEC PPS GW50 PL V01 natural -

Chemische benaming

PPS (Polyphenyleensulfide)

Kleur

naturel na

Dichtheid

1.9 g/cm³

Vulstoffen

glasvezels

Belangrijkste eigenschappen

- uitstekende chemische resistentie
- elektrisch isolerend
- vlambestendig
- zeer goede mechanische sterkte

Doelgroepen

- automobielandustrie
- 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		style 7628		-	
Fibre areal weight		203	g/m ²	-	
Fibre volume content		50	%	-	
Resin weight content		34.9	%	-	
Areal weight finished product		312	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		375	MPa	ISO 527-4	
E-modulus (trek)		23000	MPa	ISO 527-4	
Buigsterkte		500	MPa	ISO 14125	
Elasticiteitsmodulus		21000	MPa	ISO 14125	
Drukvastheid		400	MPa	ISO 14126	
Compressie modulus		26000	MPa	ISO 14126	
Interplanar shear strength		88	MPa	ISO 14129	
Thermische eigenschappen	Parameters	waarde	eenheid	norm	toelichting
Glasovergangstemperatuur		90	°C	-	(1) approximate value
Smelt-temperatuur		285	°C	-	
Gebruikstemperatuur	short term	260	°C	-	
Gebruikstemperatuur	long term	230	°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		2-3	h	-	

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