

TECATEC PPS GW50 PL V01 natural - Composite Materials

Kemisk beteckning

PPS (Polyphenylen sulfide)

Färg

Natur

Densitet

1.9 g/cm³

Fillers

glas fibrer

Huvud egenskaper

- utmärkt kemisk resistans
- 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		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	
Mekaniska Egenskaper	parameter	värde	enhet	norm	anmärkning
Draghållfasthet		375	MPa	ISO 527-4	
Elasticitetsmodul (dragprov)		23000	MPa	ISO 527-4	
Böjållfasthet		500	MPa	ISO 14125	
Elasticitetsmodul (böjningstest)		21000	MPa	ISO 14125	
Kompressionsstyrka		400	MPa	ISO 14126	
Kompressionsmodul		26000	MPa	ISO 14126	
Interplanar shear strength		88	MPa	ISO 14129	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		90	°C	-	(1) approximate value
Smält temperatur		285	°C	-	
Service temperatur	short term	260	°C	-	
Service temperatur	long term	230	°C	-	
termisk expansion	in 0° and 90° direction	10	10 ⁻⁶ K ⁻¹	-	1)
Förtorkning	parameter	värde	enhet	norm	anmärkning
Torktemperatur		150	°C	-	
Torktid		2-3	h	-	

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