

TECATEC PPS CW50 PL V01 natural - Composite Materials

Kemisk beteckning

PPS (Polyphenylen sulfide)

Färg

Natur

Densitet

1.52 g/cm³

Fillers

kol fibrer

Huvud egenskaper

- utmärkt kemisk resistans
- inneboende flambeständighet
- utmärkta mekaniska egenskaper

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		Carbon HT 3k		-	
Fibre architecture		Twill 2/2		-	
Fibre areal weight		200	g/m ²	-	
Fibre volume content		50	%	-	
Resin weight content		42.7	%	-	
Areal weight finished product		349	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		680	MPa	ISO 527-4	
Elasticitetsmodul (dragprov)		55000	MPa	ISO 527-4	
Böjhållfasthet		780	MPa	ISO 14125	
Elasticitetsmodul (böjningstest)		57000	MPa	ISO 14125	
Kompressionsstyrka		650	MPa	ISO 14126	
Kompressionsmodul		51000	MPa	ISO 14126	
Interplanar shear strength		131	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	5	10 ⁻⁶ K ⁻¹	-	1)
Förtorkning	parameter	värde	enhet	norm	anmärkning
Torktemperatur		150	°C	-	
Torktid		2-3	h	-	

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