

TECATEC PC CW50 PL V01 natural - Composite Materials

Kemisk beteckning

PC (polykarbonat)

Färg

Natur

Densitet

1.52 g/cm³

Fillers

kol fibrer

Huvud egenskaper

- hög dimensionell stabilitet
- good surface appearance
- låg termisk expansionskoefficient
- mycket hög styvhet
- mycket hög styrka

Målindustrier

- bilindustrin
- maskinteknik
- säkerhetsteknik
- sporting goods

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		38.8	%	-	
Areal weight finished product		327	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		440	MPa	ISO 527-4	
Elasticitetsmodul (dragprov)		48000	MPa	ISO 527-4	
Böjghållfasthet		615	MPa	ISO 14125	
Elasticitetsmodul (böjningstest)		48000	MPa	ISO 14125	
Kompressionsstyrka		215	MPa	ISO 14126	
Kompressionsmodul		26000	MPa	ISO 14126	
Interlaminar shear strength		44	MPa	ISO 14130	
Värmeledningsförmåga	parameter	värde	enhet	norm	anmärkning
Glasövergångstemperatur		143	°C	-	(1) approximate value
Service temperatur	short term	140	°C	-	
Service temperatur	long term	120	°C	-	
termisk expansion	in 0° and 90° direction	5	10 ⁻⁶ K ⁻¹	-	1)
Förtorkning	parameter	värde	enhet	norm	anmärkning
Torktemperatur		120	°C	-	
Torktid		3	h	-	

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