







3 matriz poliéster (E=10 GPa) e Jelera de Carlagno (E=380GPa)
A = 120 mm ² To = 250 MPa
$\frac{\Delta}{F_{f}} = 60 \qquad \qquad F_{f} = E_{f} \cdot V_{f}$ $= E_{m} \cdot V_{m}$
$\frac{V_f}{V_m} = \frac{F_f}{F_m} = \frac{60(106Pa)}{3806Pa} = 1.58$
Condição de contomo: Vf+Vm=1 Vm=1-Vf
$\frac{V_{f}}{1-v_{f}} = 1.58 = > V_{f} = 1.58 - 1.58 V_{f}$ $V_{f} = 0.612$
b) Ff = 60 Fm Fc = Ff + Fm Fc = 61 Fm
To= Fc => Fc= 250.106.170.10-6 A Fc= 30000
Fm= (30000) (=1491,8N)
Ff=Fc-Fm = 29508,196 N

(3) c) OR = 2200 MPe Ac= 120 mm²	
$G_{f}=?$ $O_{F}=F_{f}$ $A_{T_{f}}$	
ATT= Ac. VF = 120.0,612 =73,44 mm²	
Fr = (2700 MPa) (73,44 mm²) Fr = 161 S68 N	
$\frac{F_f}{F_m} = 60$ $F_m = \frac{F_f}{60} = \frac{26978 \text{N}}{60}$	
	_
Toc = Ff + Fm - 161568 + 2697, 8 = 1368, 84.10°	Pa
Ac 120.10-6	_
The state of the s	_
Gc=1368, 84 MPa	
d) April = Act Vm = 120. (1-0,612)=46,56 mm Vm=1-Vf=1-0,612	n D
Om= Fm = 2692,8 N = 57,84 MPa	
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The state of the s	
Frank Carlot Market and the second se	***************************************
Charles Man John Coll. Mr. Mar	

To = 25% = 298.15 K
191 E = 300 6 Th
DL= 0,9 mm
a) $N = C_0 \propto \Delta T$ $C = \Delta L$
-a) 12-coc D
x: DL = 0,9
LODT 400(1473,15-298,15)
$x = 1.915.10^{-5} = 1.915.10^{-6}/K$
b) o= E. e = (300 G Pa) / 0,9 = -0,675 G Pa
*ATENGÃO!!!
a Com a remarka delamorar de deser ou O. Riges a deforma
and the second of the second o
C) Timoix = Op = E Ox DT is Como i Prochagos, or prochai parson p
1100.10=300.10° (1,915).10° (176-25)
1100.10=350.10 . (2,315). 10
TF-25 = Z5,0099°C
Tf=1,9147.103 + 25
T= 1939,790
7=1939,790
2.786
d) MT-De to a gent
C) DT= 350-1200 = -850K
no su perfécie
6= 0 AT - /1 Q16 10-6/00) / 850K) - 1 620 A
10 superfécie E= 0 5T = (1,915,.10-6/c) (-850K)=-1,628.16