

LAMPIRAN

1. Variasi Ketebalan

Menghitung variasi ketebalan 4 mm, 7 mm, 10 mm dengan fraksi volume serat dan *polyester* 30 % : 70 %.

Ketebalan 4 mm = 80 ml = $80 \times 30\%$ = 24 ml (Serat)

$80 \times 70\%$ = 56 ml (Resin)

Ketebalan 7 mm = 140 ml = $140 \times 30\%$ = 42 ml (Serat)

$140 \times 70\%$ = 98 ml (Resin)

Ketebalan 10 mm = 200 ml = $200 \times 30\%$ = 60 ml (Serat)

$200 \times 70\%$ = 140 ml (Resin)

2. Berat jenis komposit

$$15 \text{ cm} \times 15 \text{ cm} \times 0,4 \text{ cm} = 90 \text{ kg/cm}^3 \frac{0,15600 \text{ kg}}{90 \text{ kg/cm}^3} = 1,7 \text{ g/cm}^3$$

$$15 \text{ cm} \times 15 \text{ cm} \times 0,07 \text{ cm} = 15,75 \text{ cm}^3 \frac{0,19750 \text{ kg}}{15,75 \text{ kg/cm}^3} = 12,5 \text{ g/cm}^3$$

$$15 \text{ cm} \times 15 \text{ cm} \times 0,1 \text{ cm} = 22,5 \text{ cm}^3 \frac{0,21360 \text{ kg}}{22,5 \text{ kg/cm}^3} = 9,4 \text{ g/cm}^3$$

3. Data Uji tarik serat tunggal

No	D1(mm)	D2 (mm)	D3 (mm)	D Rata" (mm)	A (mm ²)	P (Kg)	ΔL (mm)	L (mm)	σ (Kg/mm ²)
1	0,1983	0,2068	0,1932	0,1994	0,031	0,210	0,272	25	6,728
2	0,1983	0,2136	0,2034	0,2051	0,033	0,222	0,250	25	6,729
3	0,1526	0,1509	0,1593	0,1543	0,019	0,180	0,247	25	9,631
Rata rata									7,696