

LAMPIRAN

LABORATORIUM PENGUJIAN TEKSTIL - SEKOLAH TINGGI TEKNOLOGI TEKSTIL

Jl. Jakarta no. 31, Bandung, Jawa Barat

(022) 7272580, (022) 7271894, stti@bdg.counlin.net.id

Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	TAUFIK	Test Code	KEVLAR	Date	2/13/2024 Time 4:05:11 AM
Sample Description				Sample Number	3
Parcel		Lot		Count	1 [den]
Material					
Examiner					
Sample Length	250 [mm]	Load cell ID/FS [kg]		6 / 1000	X 1
Clamp Speed	250 [mm/min]	Pretension		0 [kg]	
Test Machine					

Observations

Statistical Results of the Test

	Force [kg]	Elongation [%]	Tenacity [g/den]	Average Time of Breakage [s]
Maximum	57.953 (1)	13.440 (3)	57953.125 (1)	7.8
Minimum	54.352 (2)	12.480 (1)	54351.563 (2)	
Average	56.259	13.000	56259.115	
Range	6.402 [%]	7.385 [%]	6.402 [%]	
CV	3.218 [%]	3.731 [%]	3.218 [%]	
Deviation	1.810	0.485	1810.252	
IC95%	2.048	0.549	2048.452	
IC99%	2.692	0.721	2692.133	

Results of Single Samples

Sample #	Max Force [kg]	Max Elongation [%]	Time [s]	Tenacity [g/den]
1	57.953	12.48	7.5	57953.125
2	54.352	13.08	7.8	54351.563
3	56.473	13.44	8.1	56472.656

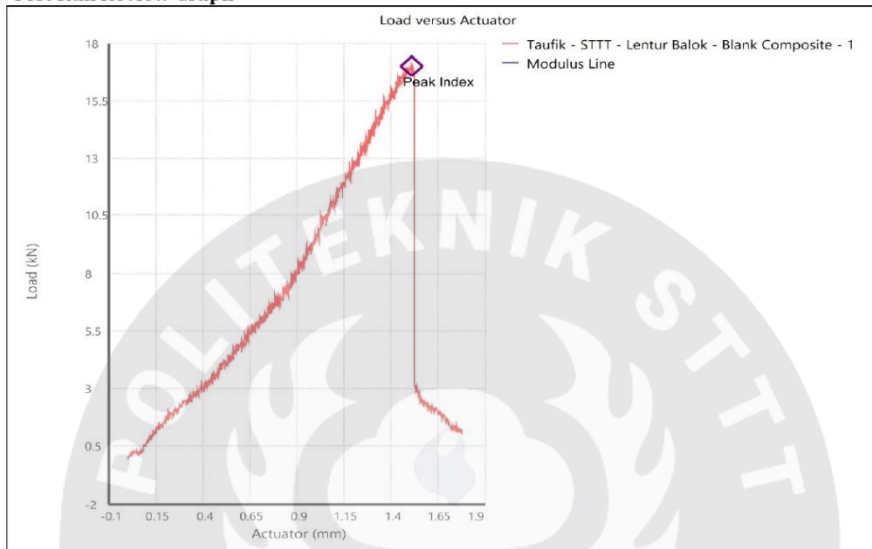
Lampiran 1.1 Hasil Pengujian Kekuatan Tarik Benang Kevlar



Default Test Run Report

Project Name Project
User Name MTS
Test Name 10-6-1 - (TAUFIK-STT TEKSTIL) UJI LENTUR BALOK BETON
Test Run Name Taufik - STTT - Lentur Balok - Blank Composite - 1
Test Run Date 11/06/2024 10:12:46

Test Run Review Graph



Test Run Results:

Display Name	Value	Unit
Test Run End	Test Stopped	
Peak Load	16.987	kN
Peak Stress	2.3	N/mm ²
Stress at Break	#NUM!	kN/mm ²
Strain at Break	#NUM!	mm/mm
Modulus	#NUM!	kN/mm ²
Thickness	150.000	mm
Width	150.000	mm

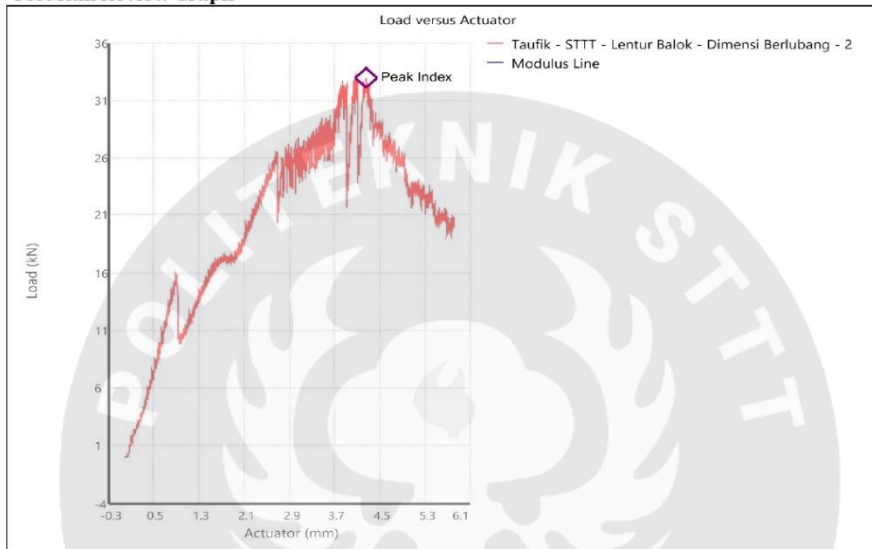
Lampiran 1.2 Hasil Pengujian Lentur *Blank Composite*



Default Test Run Report

Project Name Project
User Name MTS
Test Name 10-6-1 - (TAUFIK-STT TEKSTIL) UJI LENTUR BALOK BETON
Test Run Name Taufik - STTT - Lentur Balok - Dimensi Berlubang - 2
Test Run Date 11/06/2024 10:36:54

Test Run Review Graph



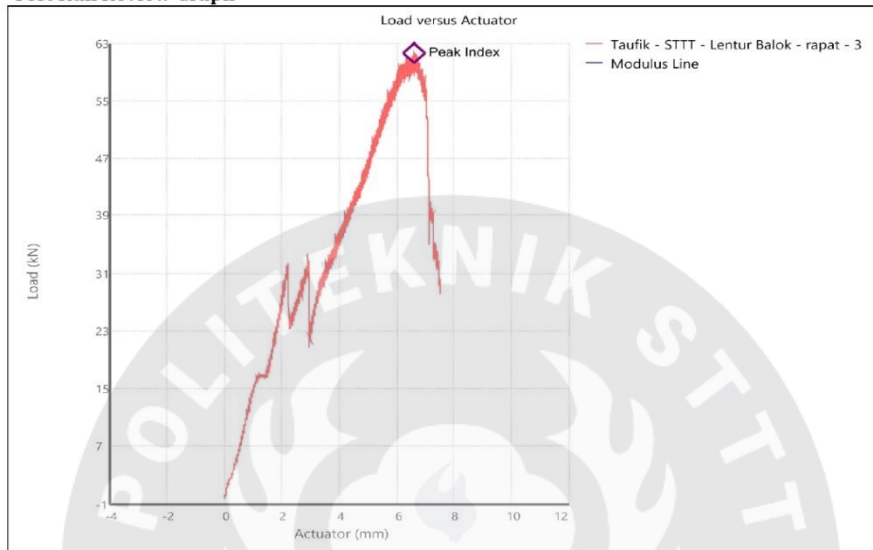
Test Run Results:

Display Name	Value	Unit
Test Run End	Test Stopped	
Peak Load	32.918	kN
Peak Stress	4.4	N/mm ²
Stress at Break	#NUM!	kN/mm ²
Strain at Break	#NUM!	mm/mm
Modulus	#NUM!	kN/mm ²
Thickness	150.000	mm
Width	150.000	mm

Lampiran 1.3 Hasil Pengujian Lentur 3 Dimensi Berlubang

**Default Test Run Report**

Project Name Project
User Name MTS
Test Name 10-6-1 - (TAUFIK-STT TEKSTIL) UJI LENTUR BALOK BETON
Test Run Name Taufik - STTT - Lentur Balok - rapat - 3
Test Run Date 11/06/2024 13:39:16

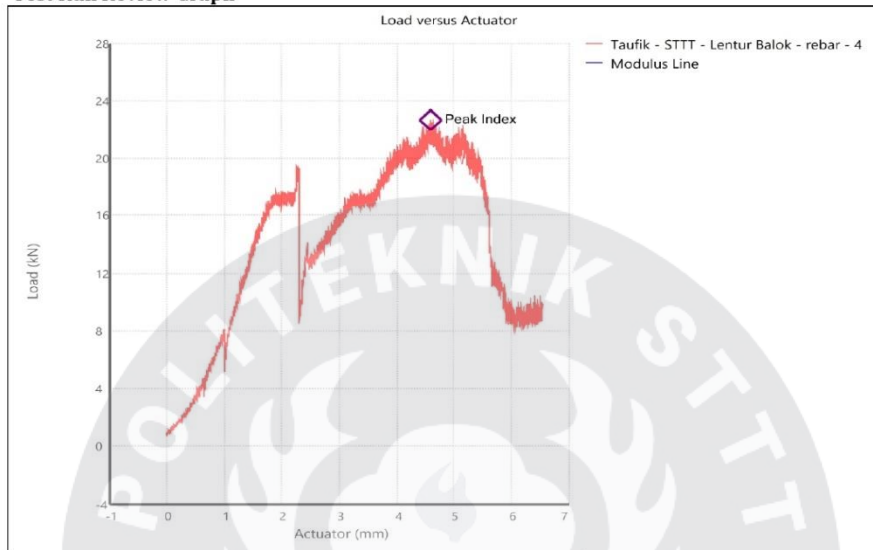
Test Run Review Graph**Test Run Results:**

Display Name	Value	Unit
Test Run End	Test Stopped	
Peak Load	61.588	kN
Peak Stress	8.2	N/mm ²
Stress at Break	#NUM!	kN/mm ²
Strain at Break	#NUM!	mm/mm
Modulus	#NUM!	kN/mm ²
Thickness	150.000	mm
Width	150.000	mm

Lampiran 1.4 Hasil Pengujian Lentur 3 Dimensi Solid

**Default Test Run Report**

Project Name Project
User Name MTS
Test Name 10-6-1 - (TAUFIK-STT TEKSTIL) UJI LENTUR BALOK BETON
Test Run Name Taufik - STTT - Lentur Balok - rebar - 4
Test Run Date 11/06/2024 15:04:04

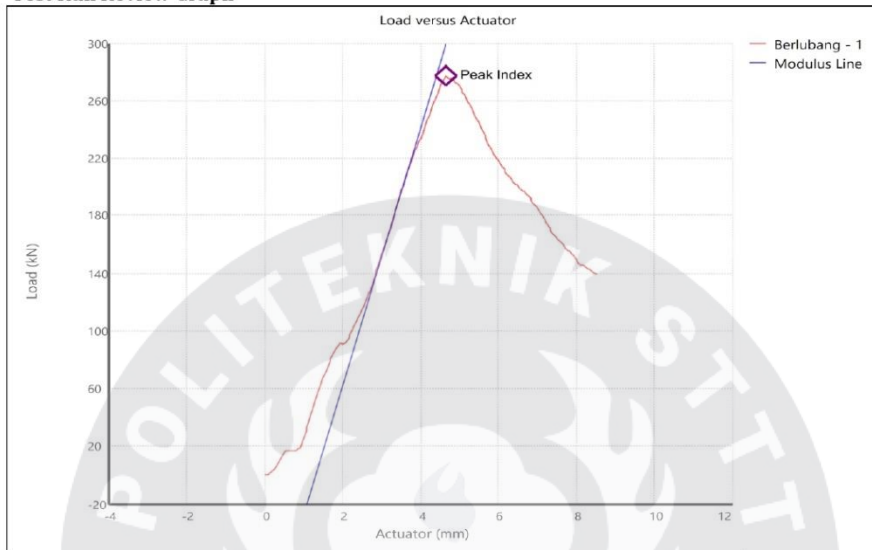
Test Run Review Graph**Test Run Results:**

Display Name	Value	Unit
Test Run End	Test Stopped	
Peak Load	22621.381	N
Peak Stress	3.0	N/mm ²
Stress at Break	#NUM!	kN/mm ²
Strain at Break	#NUM!	mm/mm
Modulus	#NUM!	kN/mm ²
Thickness	150.000	mm
Width	150.000	mm

Lampiran 1.5 Hasil Pengujian Lentur Dimensi Rebar

**Default Test Run Report**

Project Name Project
User Name MTS
Test Name 14-6-6 (Uji tekan kubus) Displacement
Test Run Name Berlubang - 1
Test Run Date 14/06/2024 14:25:30

Test Run Review Graph**Test Run Results:**

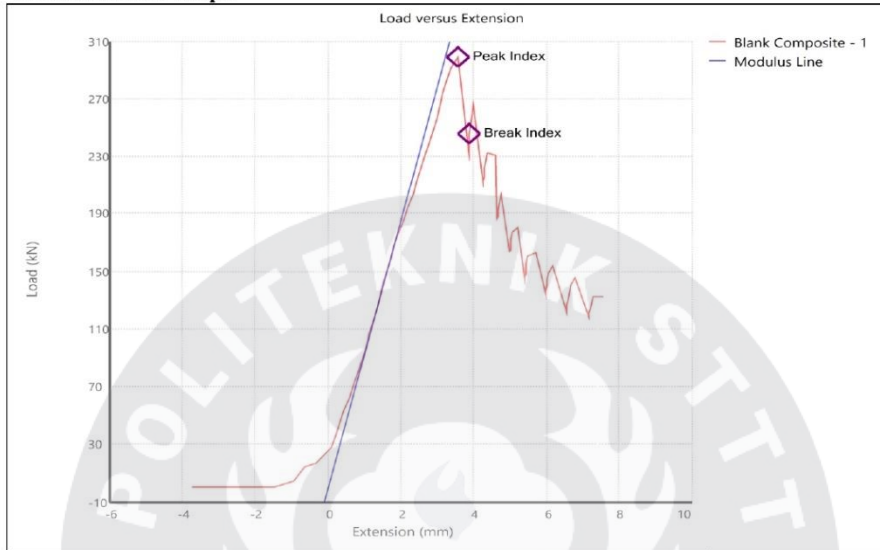
Display Name	Value	Unit
Test Run E	Break Dete	
Width	150.00	mm
Thickness	150.00	mm
Area	225.0000	cm ²
Peak Stress	12.3	MPa
Peak Load	276.957	kN
Modulus	198.163	N/mm ²

Lampiran 1.6 Hasil Pengujian Tekan Dimensi Berlubang

**Default Test Run Report**

Project Name
User Name
Test Name
Test Run Name
Test Run Date

Project
MTS
14-6-6 (Tekan Beton Kubus 15x15x15cm)
Blank Composite - 1
14/06/2024 14:20:38

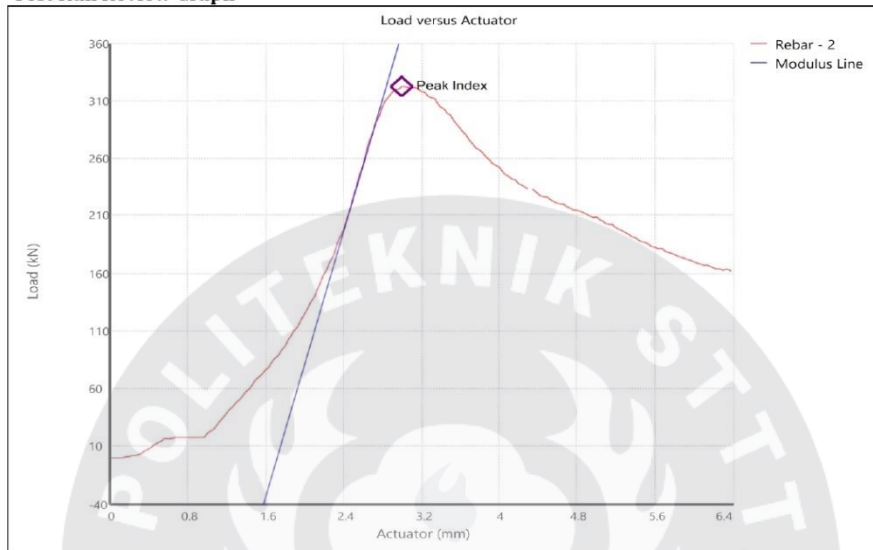
Test Run Review Graph**Test Run Results:**

Display Name	Value	Unit
Test Run End	Procedure Finished	
Peak Stress	135.5 kgf/cm ²	13.28 Mpa
Peak Load	298.942 k/N	
Modulus	6326.480 kgf/cm ²	
Width	150.000 mm	
Thickness	150.000 mm	

Lampiran 1.7 Hasil Pengujian Tekan *Blank Composite*

**Default Test Run Report**

Project Name Project
User Name MTS
Test Name 14-6-6 (Uji tekan kubus) Displacement
Test Run Name Rebar - 2
Test Run Date 14/06/2024 14:32:17

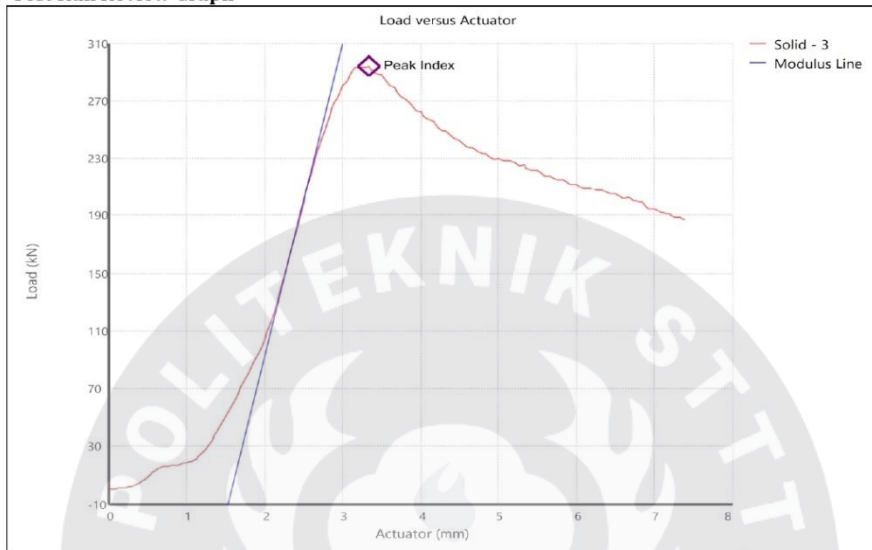
Test Run Review Graph**Test Run Results:**

Display Name	Value	Unit
Test Run E	Break Dete	
Width	150.00	mm
Thickness	150.00	mm
Area	225.0000	cm ²
Peak Stress	14.3	MPa
Peak Load	322.109	kN
Modulus	641.942	N/mm ²

Lampiran 1.8 Hasil Pengujian Tekan 3 Dimensi Rebar

**Default Test Run Report**

Project Name Project
User Name MTS
Test Name 14-6-6 (Uji tekan kubus) Displacement
Test Run Name Solid - 3
Test Run Date 14/06/2024 14:40:40

Test Run Review Graph**Test Run Results:**

Display Name	Value	Unit
Test Run End	Test Stopped	
Width	150.00	mm
Thickness	150.00	mm
Area	225.0000	cm ²
Peak Stress	13.1	MPa
Peak Load	294.128	kN
Modulus	483.145	N/mm ²

Lampiran 1.9 Hasil Pengujian Tekan 3 Dimensi Solid