

APPENDIX- III TENSILE TEST

RESULTS FROM S.P. UNIVERSITY



Gram : UNIVERSITY

SARDAR PATEL UNIVERSITY
Department of Chemistry

VALLABH VIDYANAGAR - 388120

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REPORT

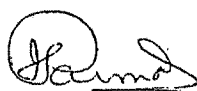
R/F-9/

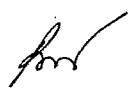
Date: 28/3/2006

To,
Mrs. G. D. Shah
I/C Head of Plastics Engg. Dept.
Government Polytechnic
Ahmedabad – 380 015

Your Ref. No. : LETTER Dtd, 2/3/2006
Analysis of : Plastic films
Sample Nos. : 44 (Forty four)
Code No. : As per report

Result is attached herewith.


(Incharge/Analyst)
Dr. J. S. Parmar


(Dr. R. M. Patel)
Prof. & Head

Encl.: as stated above. (Tensile Impact Strength)

DEPARTMENT OF CHEMISTRY * SARDAR PATEL UNIVERSITY
VALLABH VIDYANAGAR

TENSILE IMPACT STRENGTH

No.	Sample Name	Thickness (cm)	Reading J (Hammer)	Tensile I. S. KJ/Cm
1	LV	0.029	9.0 (15J)	4.65
2	LG 5	0.012	8.5 (")	1.06
3	LG 10	0.014	13.7 (")	14.67
4	LG 15	0.019	10.5 (")	8.28
5	LG 20	0.036	11.7 (")	4.87
6	LG 25	0.032	8.9 (")	4.17
7	LS 5	0.022	12.4 (")	8.45
8	LS 10	0.030	11.7 (")	5.85
9	LS 15	0.046	14.3 (25 J)	7.77
10	LS 20	0.030	11.6 (15 J)	5.80
11	LS 25	0.032	11.1 (")	5.20
12	HV	0.055	13.4 (")	3.65
13	HG 5	0.045	13.8 (")	4.60
14	HG 10	0.030	11.9 (")	5.95
15	HG 15	0.030	10.8 (")	5.40
16	HG 20	0.033	9.9 (")	4.50
17	HG 25	0.028	10.3 (")	5.51
18	HS 5	0.023	9.5 (")	6.19
19	HS 10	0.022	11.0 (")	7.50
20	HS 15	0.018	9.6 (")	8.00
21	HS 20	0.019	9.0 (")	7.10
22	HS 25	0.013	8.9 (")	10.26
23	Ps V	0.041	8.7 (")	3.18
24	Ps G5	0.038	8.8 (")	3.47
25	Ps G10	0.027	7.4 (")	4.11
26	Ps G15	0.044	8.7 (")	2.96
27	Ps G20	0.045	9.4 (")	3.13
28	Ps G25	0.048	9.8 (")	3.06
29	Ps S5	0.033	8.6 (")	3.90
30	Ps S10	0.039	8.9 (")	3.42
31	Ps S15	0.035	7.8 (15)	3.34
32	Ps S20	0.027	8.8 (")	4.88
33	Ps S25	0.033	7.7 (")	3.50
34	P1 V	0.035	11.6 (")	4.97
35	PP G5	0.046	16.1 (")	5.25
36	PP G10	0.030	11.9 (")	5.95
37	PP G15	0.026	11.8 (")	6.80
38	PP G20	0.036	12.2 (")	5.08
39	PP G25	0.036	11.4 (")	4.75
40	PP S5	0.045	13.3 (")	4.43
41	PP S10	0.046	11.1 (")	3.61
42	PP S15	0.045	12.1 (")	4.03
43	PP S20	0.030	11.3 (")	5.65
44	PP S25	0.055	13.4 (")	3.65

Calculation as per following formula

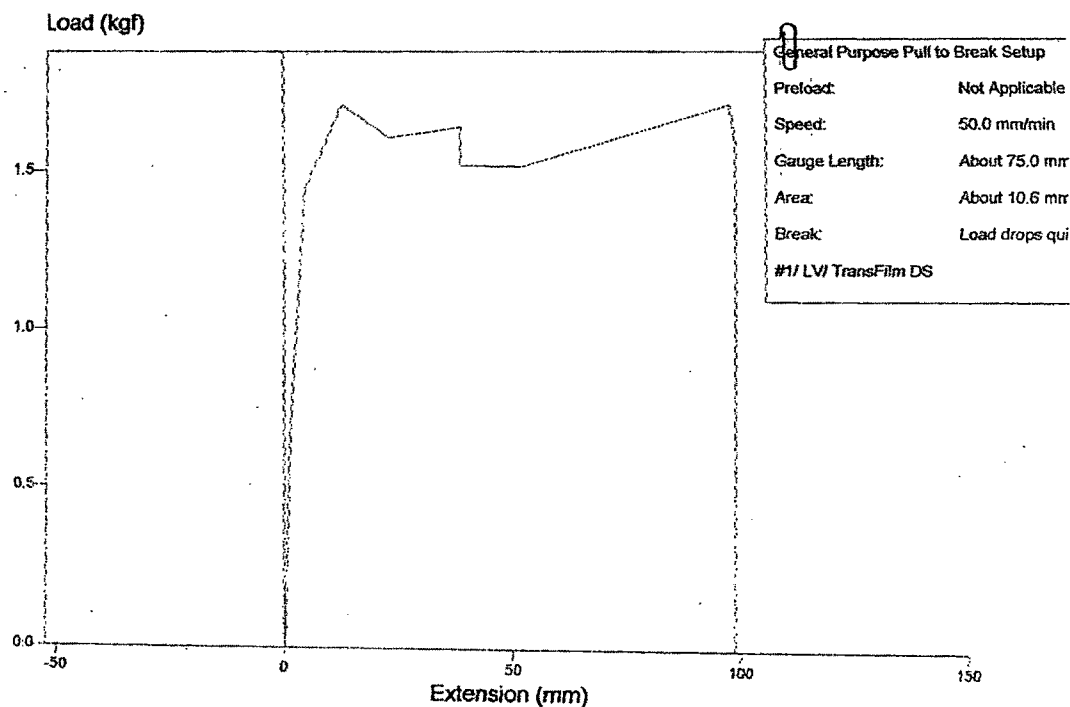
$$\text{Tensile IS} = \frac{\text{Reading (J)} \times \text{Hammer Capacity}}{\text{Film Thickness (Cm)}}, \text{ J/Cm}$$

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Tensile Test Report

Date: 16/03/06
Time: 1:49:30 PM
Sample Reference : #1_LV
Gauge Length : 75.000 mm
Width : 10.580 mm
Breadth : 0.29000 mm

<TRANSLATION Maximum Load>	<TRANSLATION Stress at Maximum Load>	% Elongation at Break	Young's Modulus	<TRANSLATION Stiffness>
<VALUES Maximum Load>	<VALUES Stress at Maximum Load>	<VALUES Percentage Strain at Break>	<VALUES Young's Modulus>	<VALUES Stiffness>



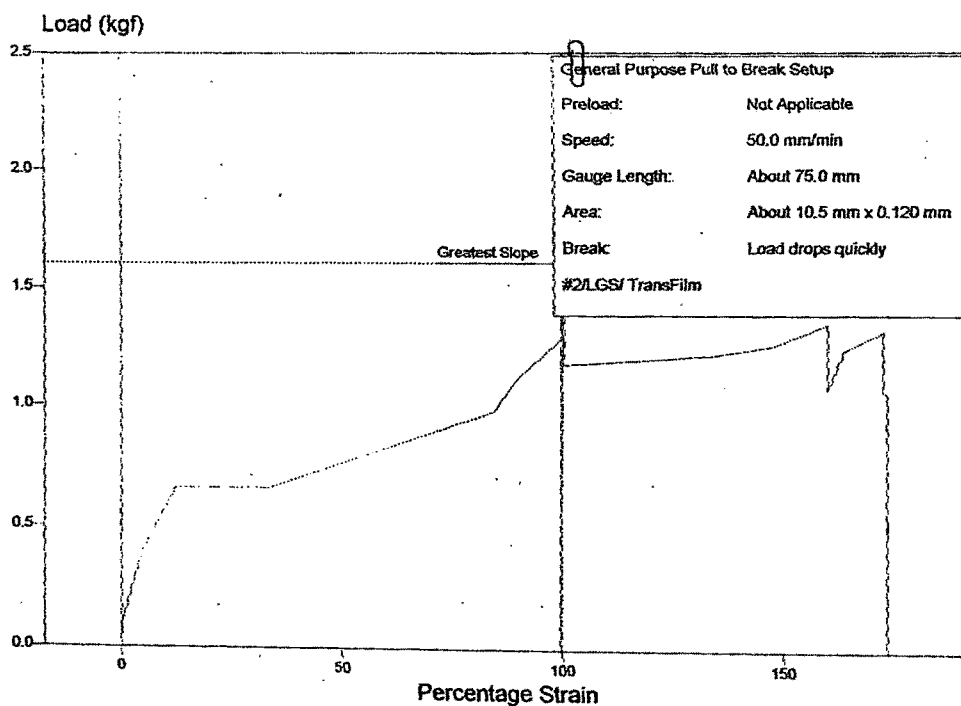
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Tensile Test Report

Date : 16/03/06
Time : 2:01:05 PM
Sample Reference : #2_LGS
Gauge Length : 75.000 mm
Width : 10.500 mm
Breadth : 0.12000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.1469 kgf	249.76 kgf/cm ²		38797.0 kgf/cm ²	63941.0 N/m



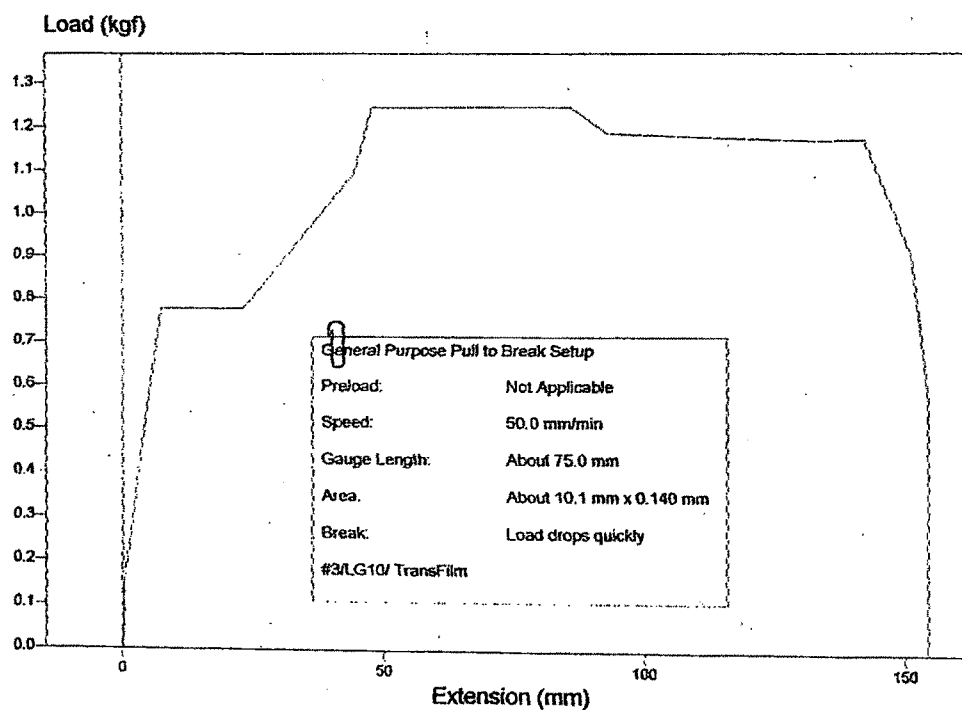
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Tensile Test Report

Date : 16/03/06
Time : 2:11:42 PM
Sample Reference : #3_LG10
Gauge Length : 75.000 mm
Width : 10.130 mm
Breadth : 0.14000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
		<VALUES Percentage Strain at Break>		

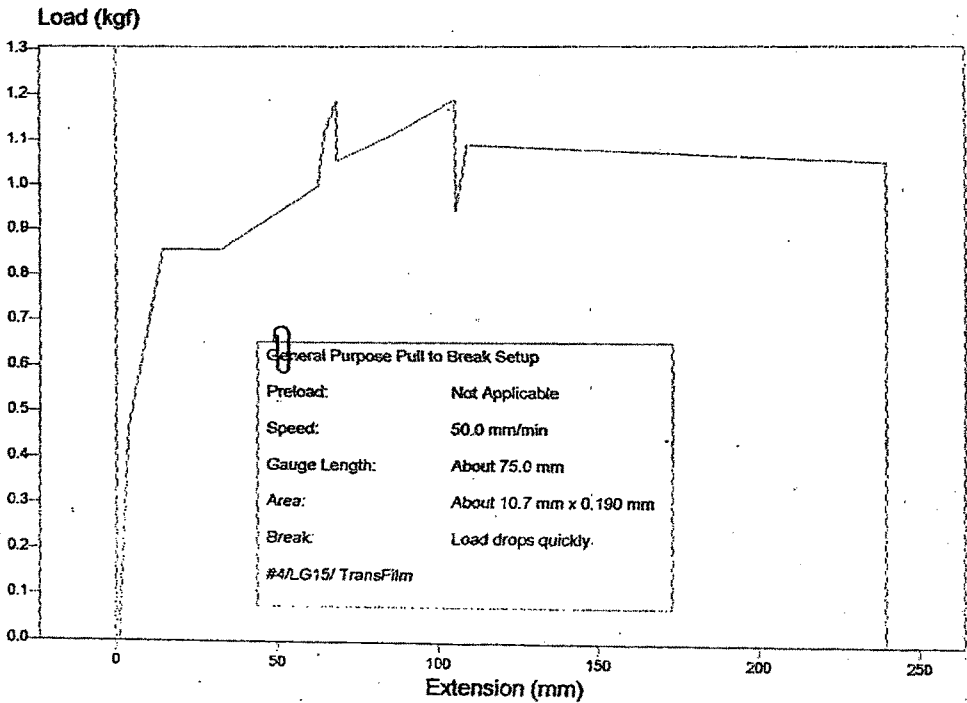


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Tensile Test Report

Date : 16/03/06
Time : 2:20:52 PM
Sample Reference : #4_LG15
Gauge Length : 75.000 mm
Width : 10.660 mm
Breadth : 0.19000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
		<VALUES Percentage Strain at Break>		



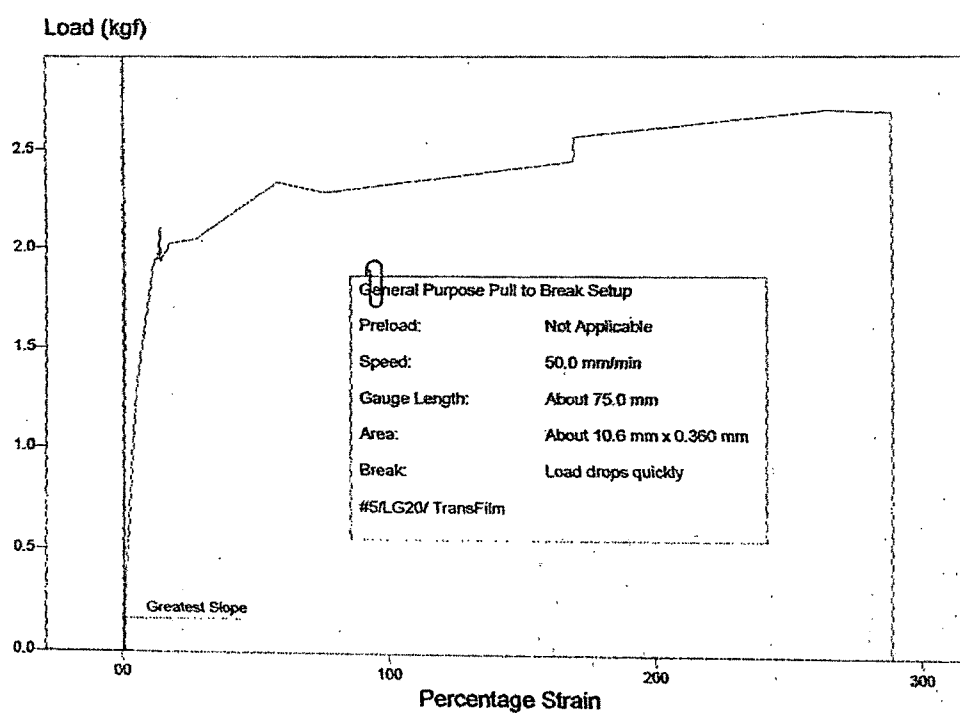
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Tensile Test Report

Date : 16/03/06
Time : 2:31:08 PM
Sample Reference : #5_LG20
Gauge Length : 75.000 mm
Width : 10.630 mm
Breadth : 0.36000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
2.6964 kgf	70.462 kgf/cm ²		247540 kgf/cm ²	1239100 N/m



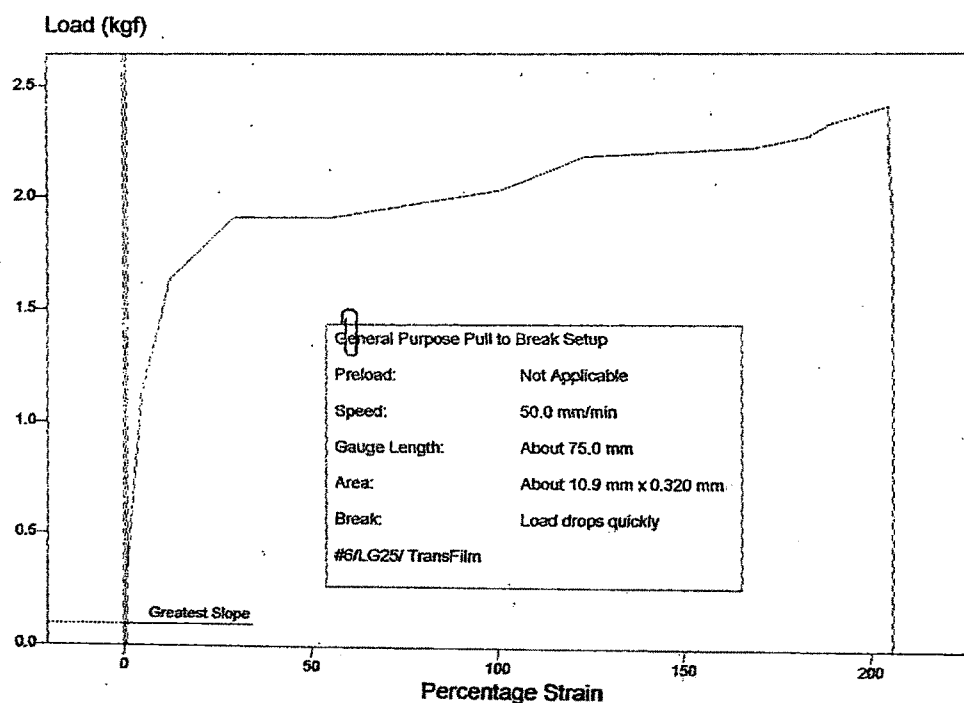
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Tensile Test Report

Date : 16/03/06
Time : 2:56:16 PM
Sample Reference : #6_LG25
Gauge Length : 75.000 mm
Width : 10.850 mm
Breadth : 0.32000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
2.4036 kgf	69.229 kgf/cm ²		268390 kgf/cm ²	1218900 N/m

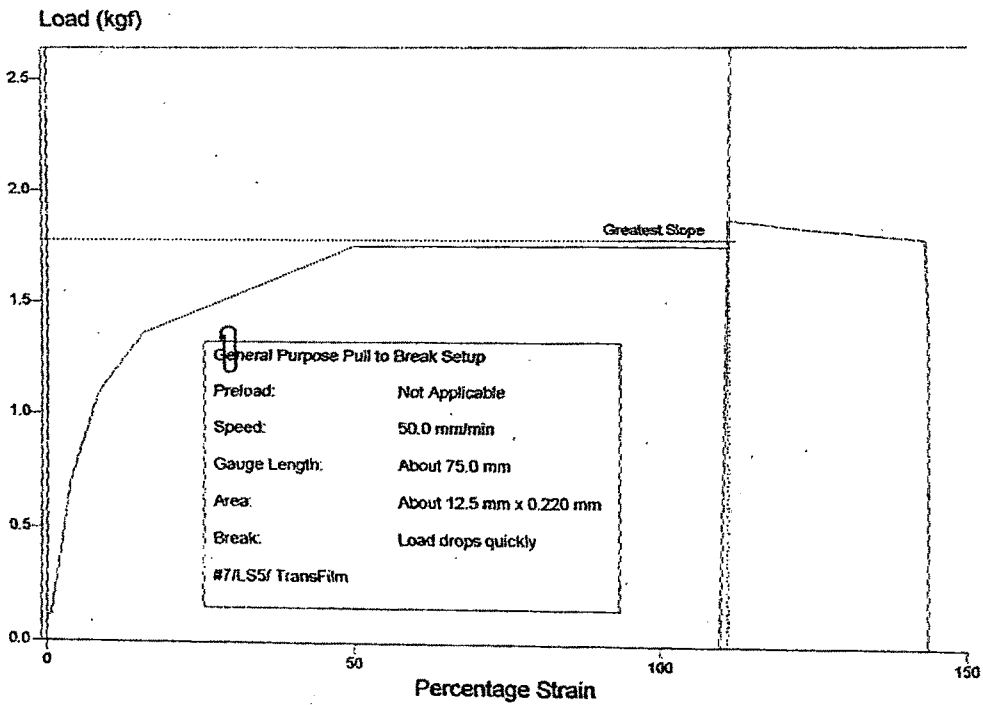


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Tensile Test Report

Date : 20/03/06
Time : 1:52:03 PM
Sample Reference : #7_LS5
Gauge Length : 75.000 mm
Width : 12.500 mm
Breadth : 0.22000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
1.8664 kgf	67.869 kgf/cm ²	<VALUES Percentage Strain at Break>	4762.5 kgf/cm ²	17131.0 N/m



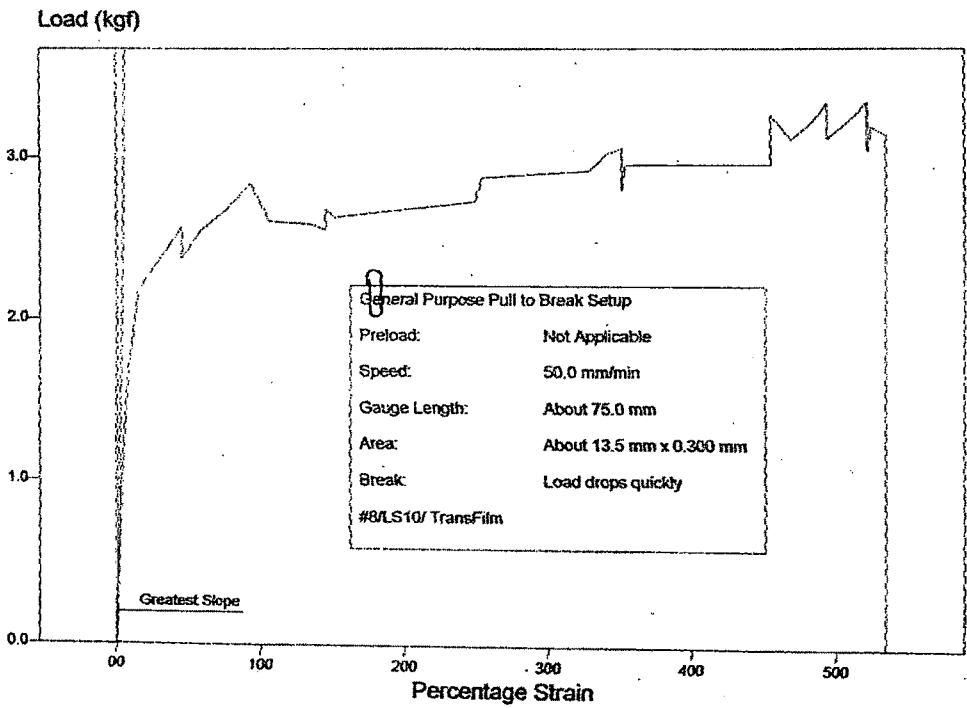
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Tensile Test Report

Date : 20/03/06
Time : 2:01:15 PM
Sample Reference : #8_LS10
Gauge Length : 75.000 mm
Width : 13.500 mm
Breadth : 0.30000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.3431 kgf	82.545 kgf/cm ²	<VALUES Percentage Strain at Break>	1649.8 kgf/cm ²	8739.7 N/m



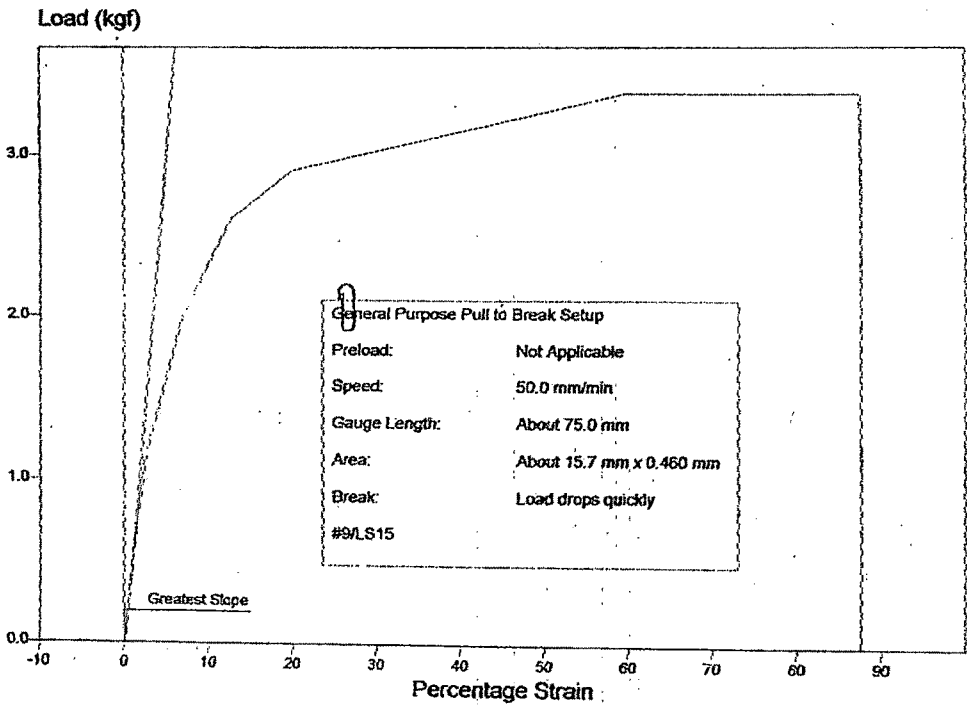
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Tensile Test Report

Date : 20/03/06
Time : 2:30:08 PM
Sample Reference : #9_LS15
Gauge Length : 75.000 mm
Width : 15.700 mm
Breadth : 0.46000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.3831 kgf	46.844 kgf/cm ²	<VALUES Percentage Strain at Break>	857.85 kgf/cm ²	8103.5 N/m



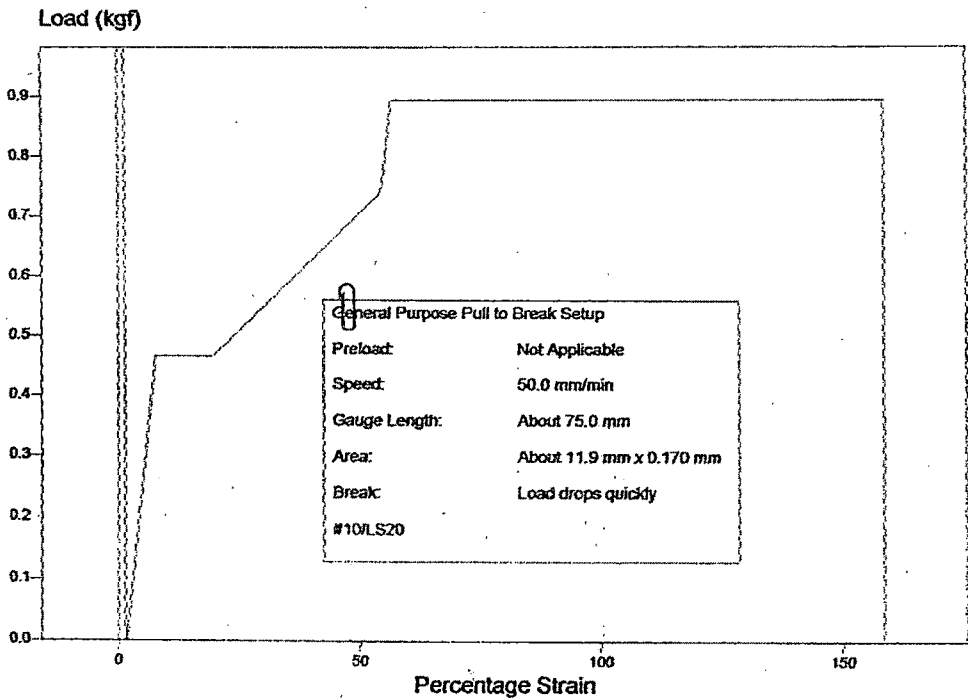
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Tensile Test Report

Date : 20/03/06
Time : 2:42:21 PM
Sample Reference : #10_LS20
Gauge Length : 75.000 mm
Width : 11.850 mm
Breadth : 0.17000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
0.89449 kgf	44.403 kgf/cm ²	<VALUES Percentage Strain at Break>	926940 kgf/cm ²	2442400 N/m

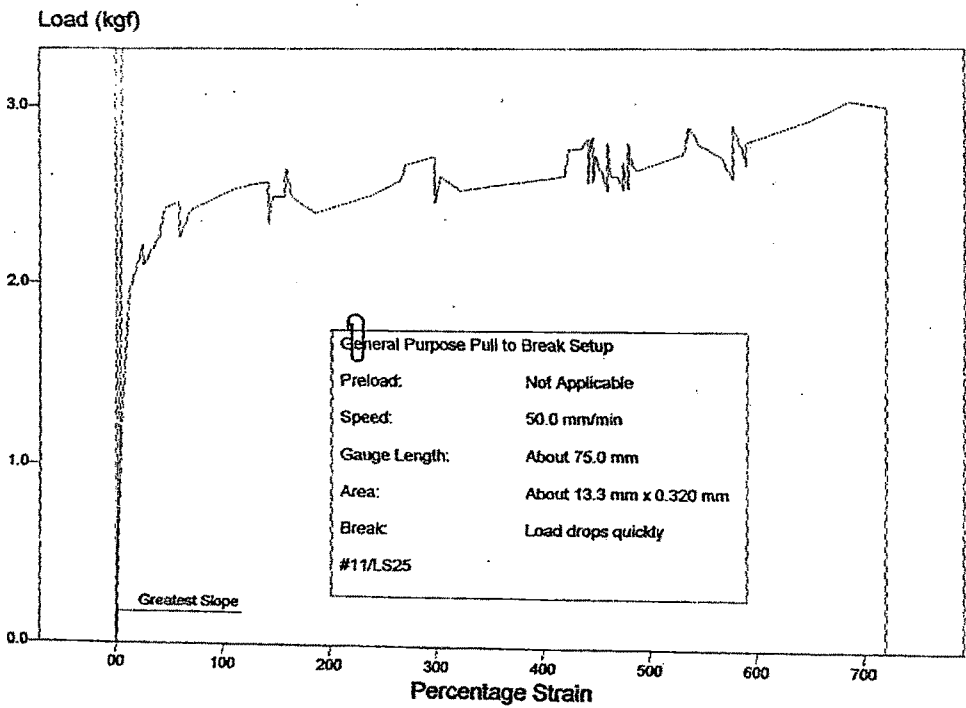


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Date : 20/03/06
Time : 2:52:13 PM
Sample Reference : #11_LS25
Gauge Length : 75.000 mm
Width : 13.300 mm
Breadth : 0.32000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.0268 kgf	71.119 kgf/cm²	<VALUES Percentage Strain at Break>	1312.6 kgf/cm²	7306.8 N/m



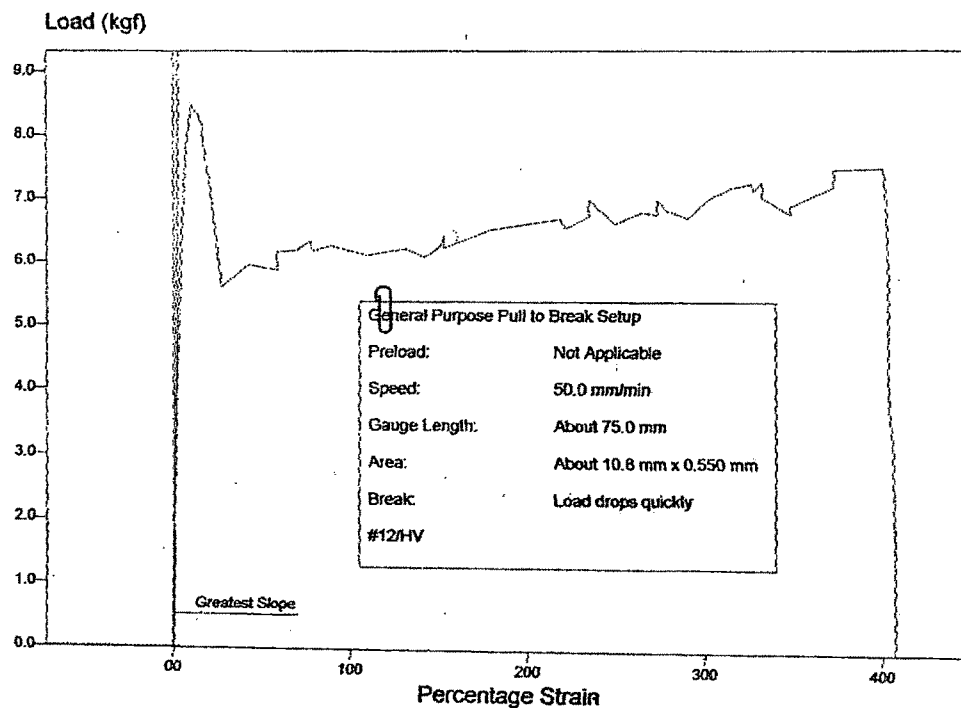
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Tensile Test Report

Date : 20/03/06
Time : 3:08:22 PM
Sample Reference : #12_HV
Gauge Length : 75.000 mm
Width : 10.800 mm
Breadth : 0.55000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
8.4771 kgf	142.71 kgf/cm ²	<VALUES Percentage Strain at Break>	4994.8 kgf/cm ²	38807.0 N/m



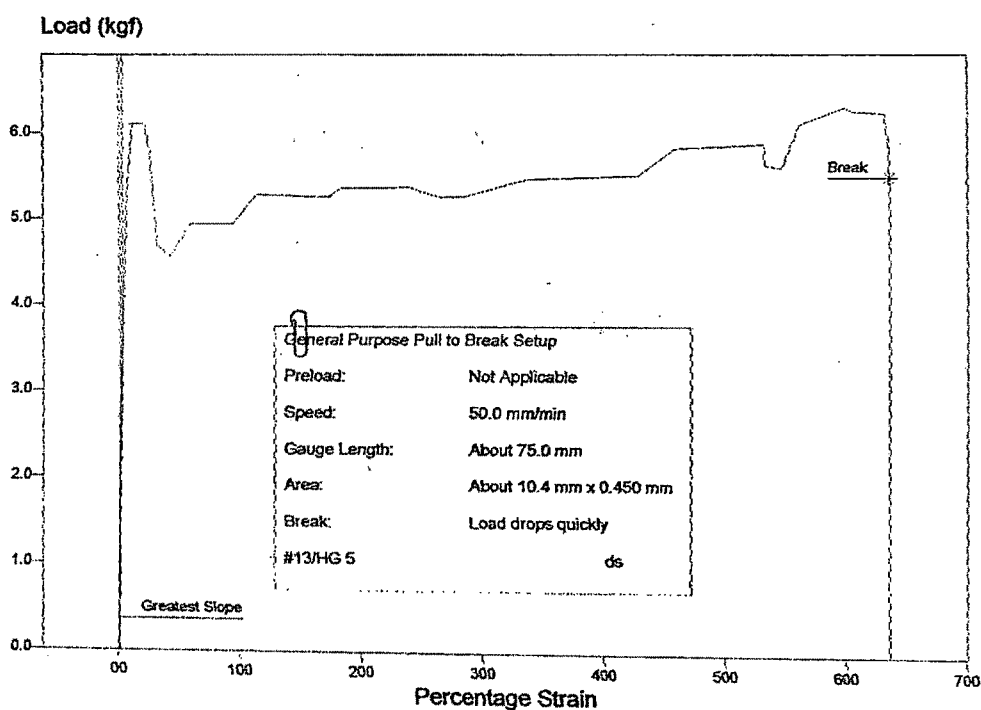
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Tensile Test Report

Date : 20/03/06
Time : 3:20:01 PM
Sample Reference : #13_HG 5
Gauge Length : 75.000 mm
Width : 10.400 mm
Breadth : 0.45000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
6.2912 kgf	134.43 kgf/cm ²	635.31	5008.0 kgf/cm ²	30656.0 N/m



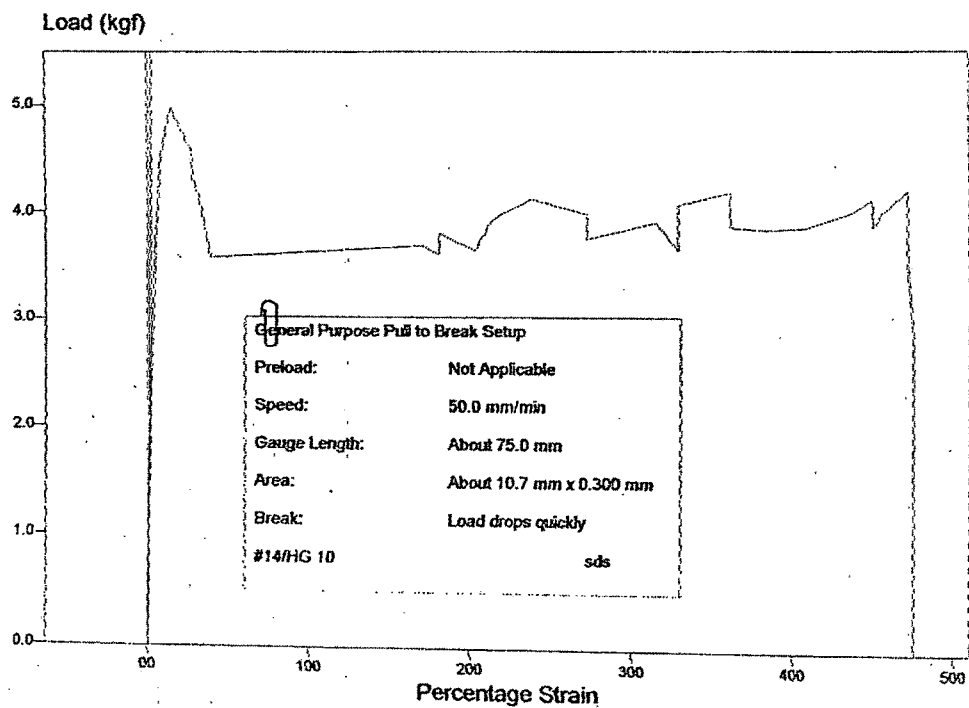
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Uniaxial Test Report

Date : 20/03/06
Time : 3:34:41 PM
Sample Reference : #14_HG 10
Gauge Length : 75.000 mm
Width : 10.700 mm
Breadth : 0.30000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
4.9774 kgf	155.06 kgf/cm ²		6278.6 kgf/cm ²	26362.0 N/m



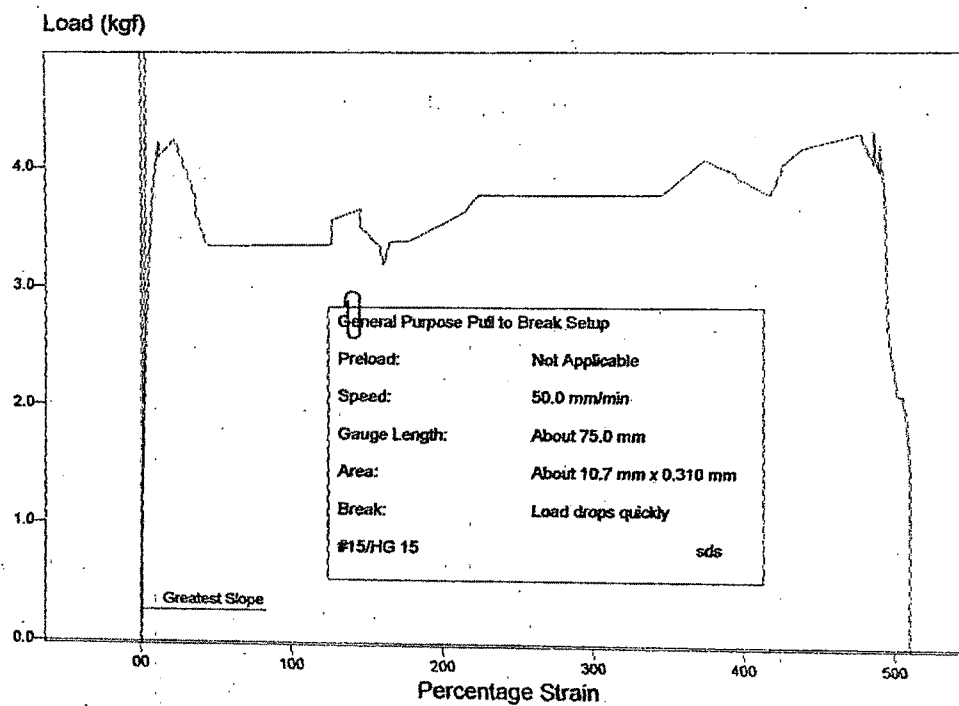
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Tensile Test Report

Date : 20/03/06
Time : 3:46:43 PM
Sample Reference : #15_HG 15
Gauge Length : 75.000 mm
Width : 10.700 mm
Breadth : 0.31000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
4.3149 kgf	130.08 kgf/cm ²		4662.8 kgf/cm ²	20230.0 N/m

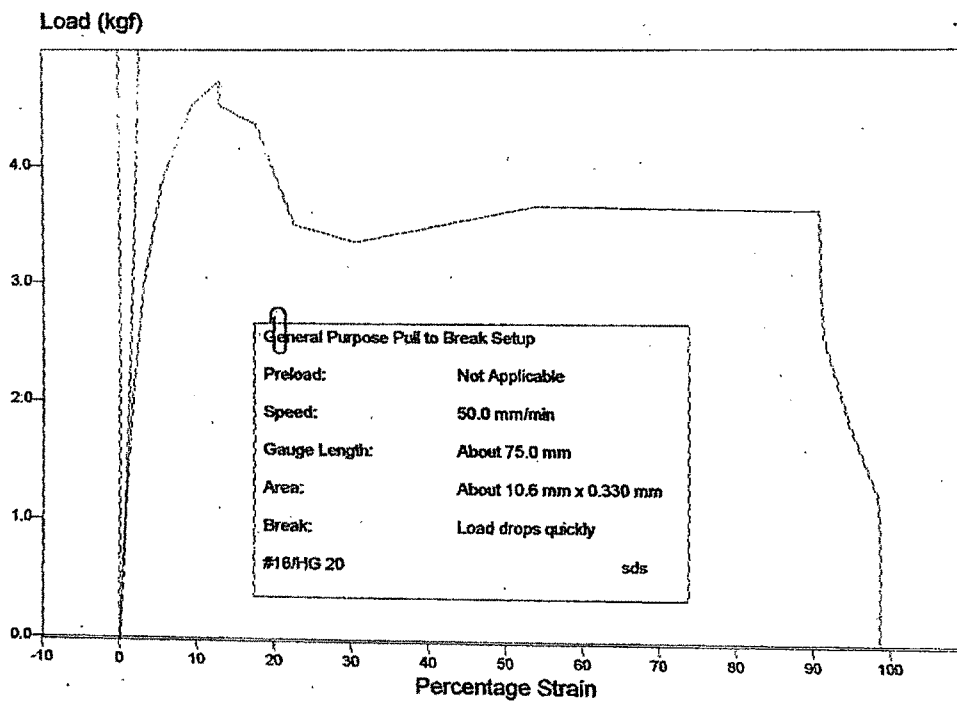


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Date : 20/03/06
Time : 3:59:31 PM
Sample Reference : #16_HG 20
Gauge Length : 75.000 mm
Width : 10.610 mm
Breadth : 0.33000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
4.7263 kgf	134.99 kgf/cm ²		5570.2 kgf/cm ²	25510.0 N/m



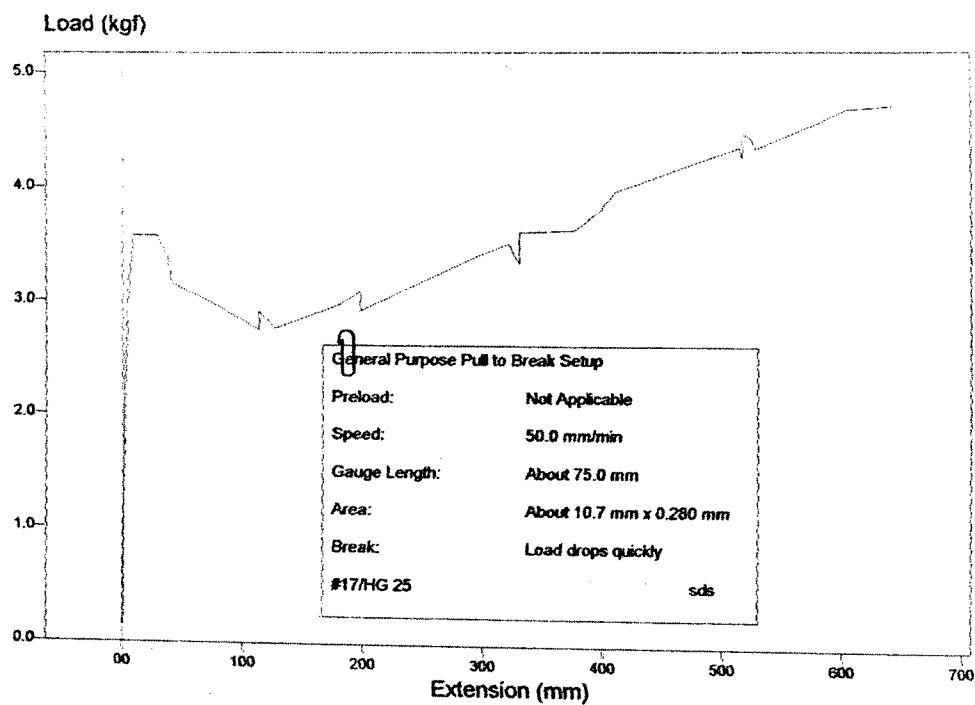
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Tensile Test Report

Date : 20/03/06
Time : 4:04:54 PM
Sample Reference : #17_HG 25
Gauge Length : 75.000 mm
Width : 10.680 mm
Breadth : 0.28000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness



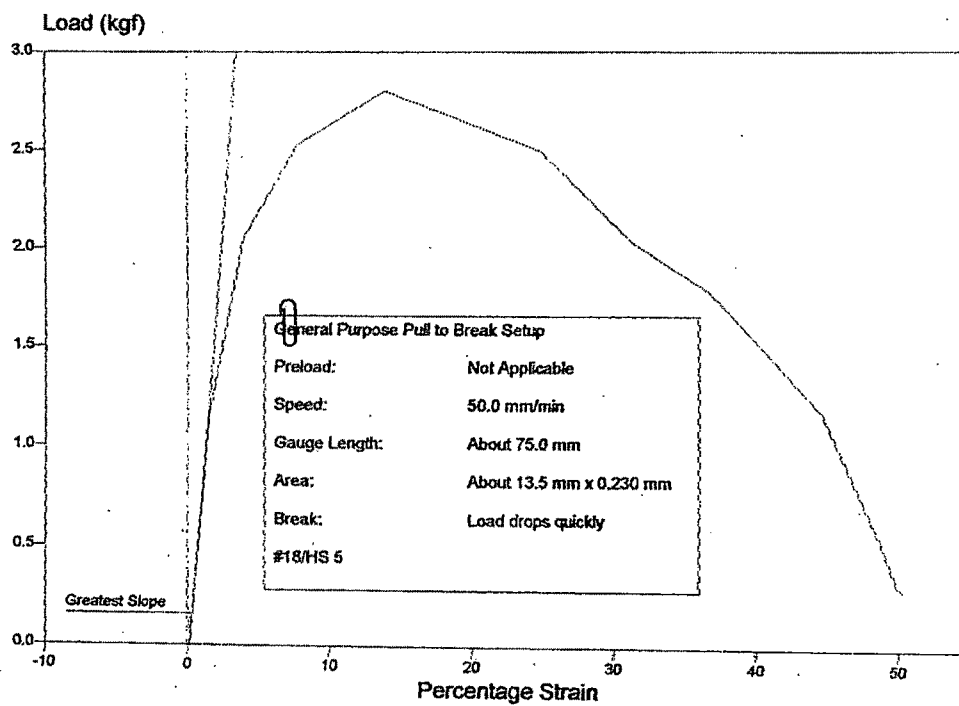
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Tensile Test Report

Date : 20/03/06
Time : 4:23:11 PM
Sample Reference : #18_HS 5
Gauge Length : 75.000 mm
Width : 13.500 mm
Breadth : 0.23000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
2.7998 kgf	90.169 kgf/cm ²		2926.9 kgf/cm ²	11887.0 N/m



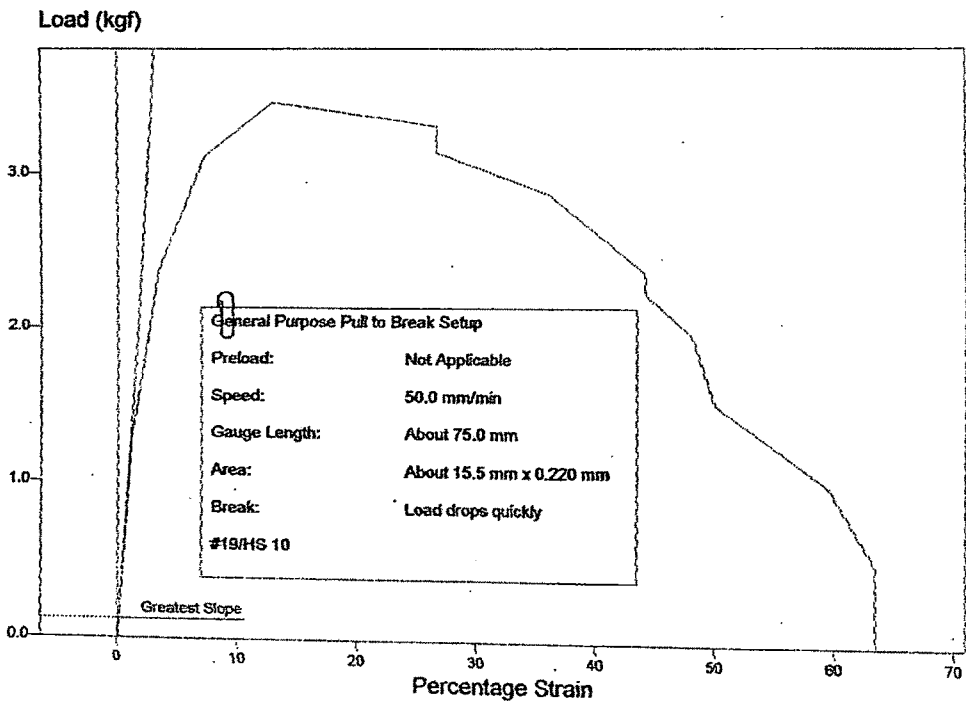
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Tensile Test Report

Date : 20/03/06
Time : 4:28:04 PM
Sample Reference : #19_HS 10
Gauge Length : 75.000 mm
Width : 15.500 mm
Breadth : 0.22000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.4507 kgf	101.19 kgf/cm ²		3612.5 kgf/cm ²	16113.0 N/m



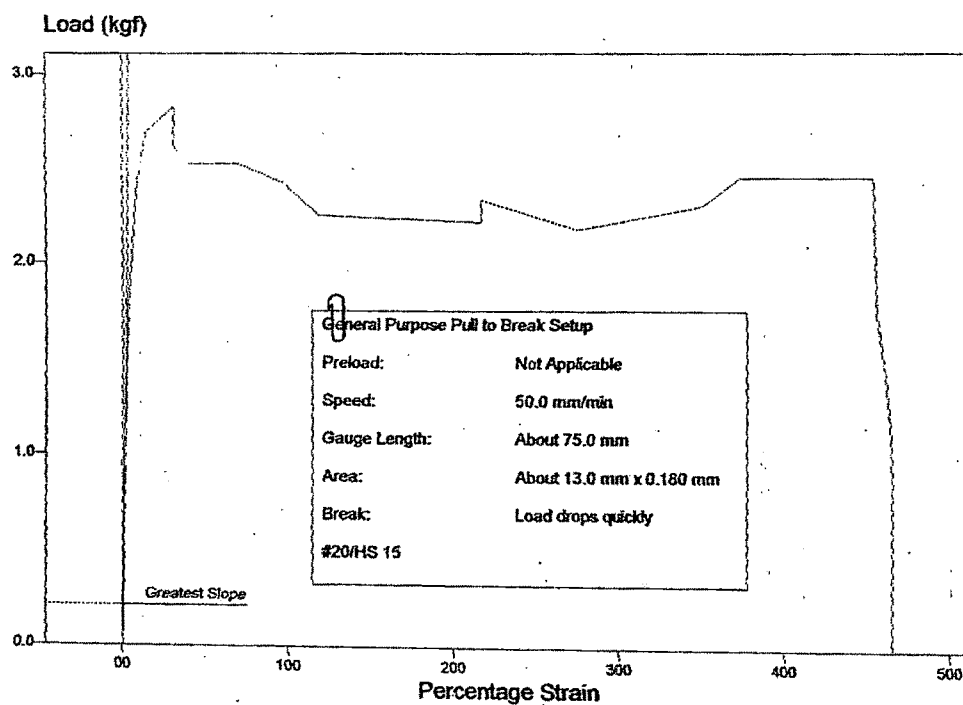
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Tensile Test Report

Date : 20/03/06
Time : 4:33:06 PM
Sample Reference : #20_HS 15
Gauge Length : 75.000 mm
Width : 13.000 mm
Breadth : 0.18000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
2.8283 kgf	120.87 kgf/cm ²		3291.9 kgf/cm ²	10076.0 N/m



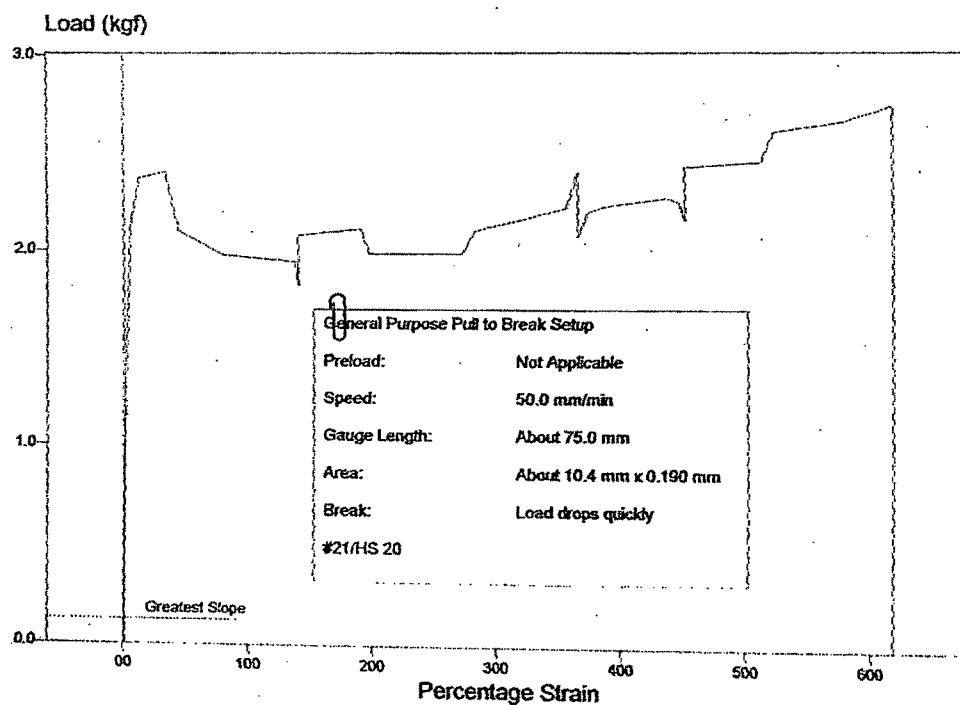
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Final Test Report

Date : 20/03/06
Time : 4:44:47 PM
Sample Reference : #21_HS 20
Gauge Length : 75.000 mm
Width : 10.350 mm
Breadth : 0.19000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
2.7391 kgf	139.29 kgf/cm ²		552730 kgf/cm ²	1421700 N/m



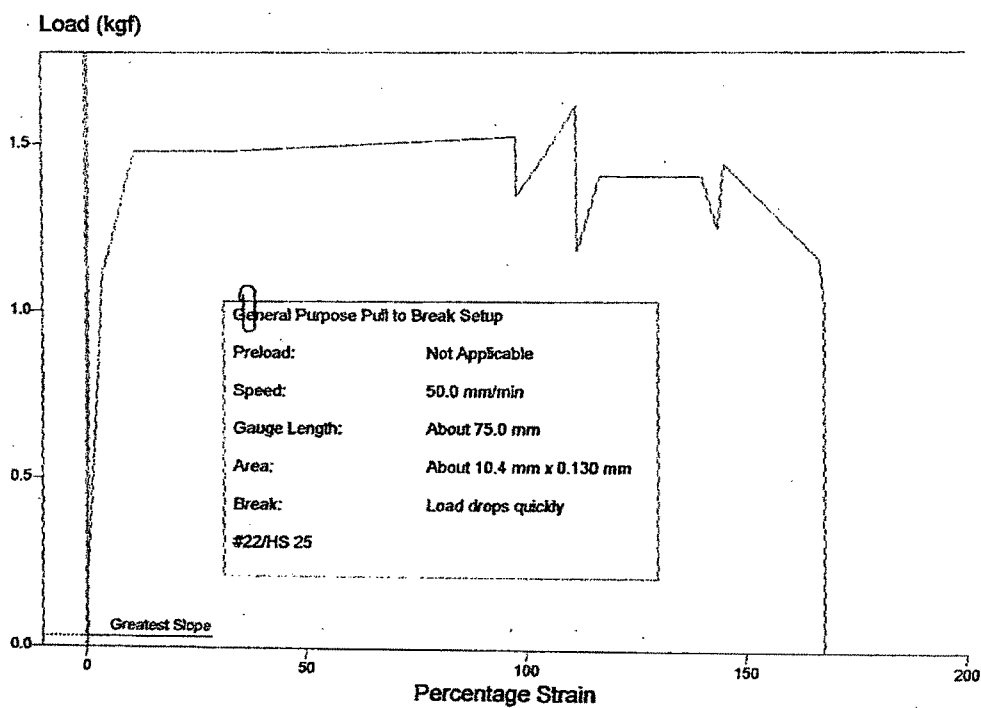
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Tensile Test Report

Date : 20/03/06
Time : 4:57:42 PM
Sample Reference : #22_HS 25
Gauge Length : 75.000 mm
Width : 10.450 mm
Breadth : 0.13000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
1.6134 kgf	118.76 kgf/cm ²		104020 kgf/cm ²	184830 N/m



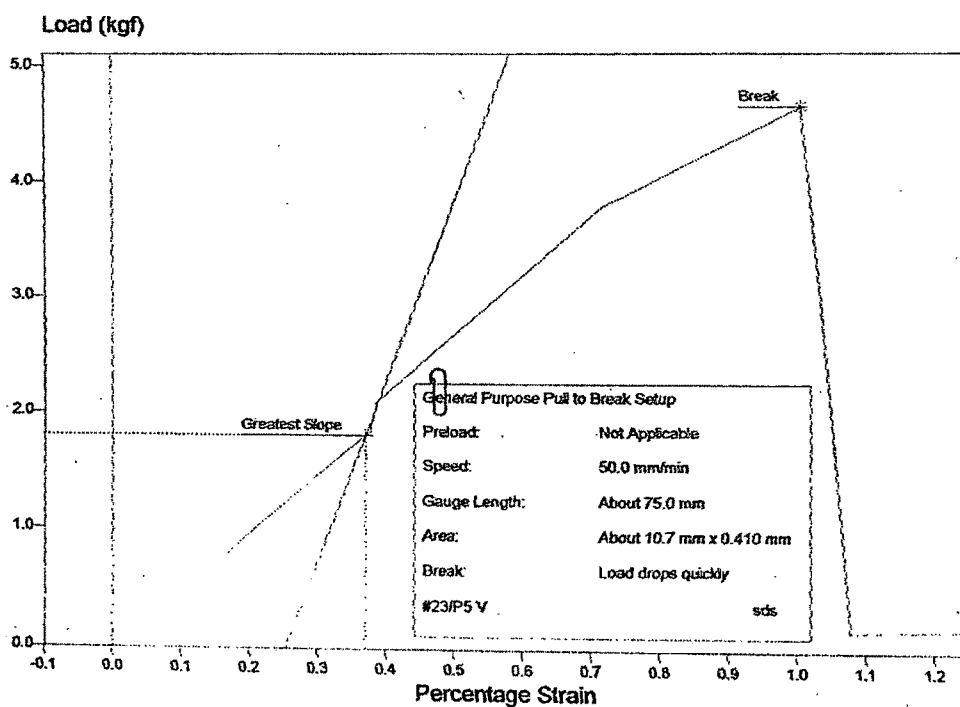
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Tensile Test Report

Date : 21/03/06
Time : 11:02:17 AM
Sample Reference : #23_P5 V
Gauge Length : 75.000 mm
Width : 10.730 mm
Breadth : 0.41000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
4.6426 kgf	105.53 kgf/cm ²	1.0073	35096.0 kgf/cm ²	201950 N/m



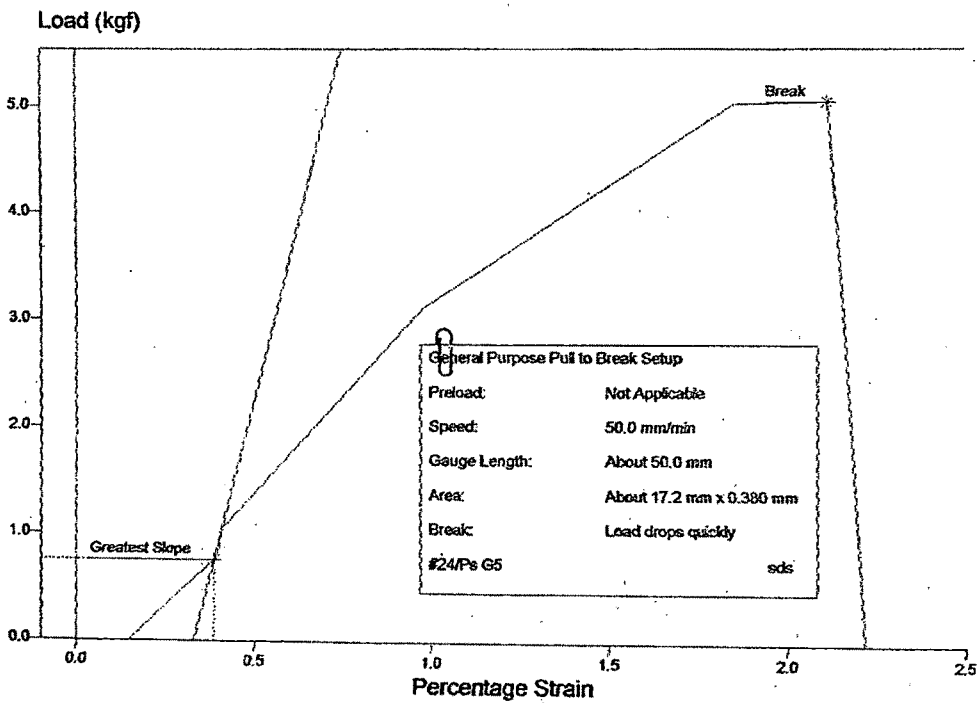
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Tensile Test Report

Date : 21/03/06
Time : 11:10:37 AM
Sample Reference : #24_Ps G5
Gauge Length : 50.000 mm
Width : 17.180 mm
Breadth : 0.38000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
5.0308 kgf	77.060 kgf/cm ²	2.1163	20072.0 kgf/cm ²	257090 N/m



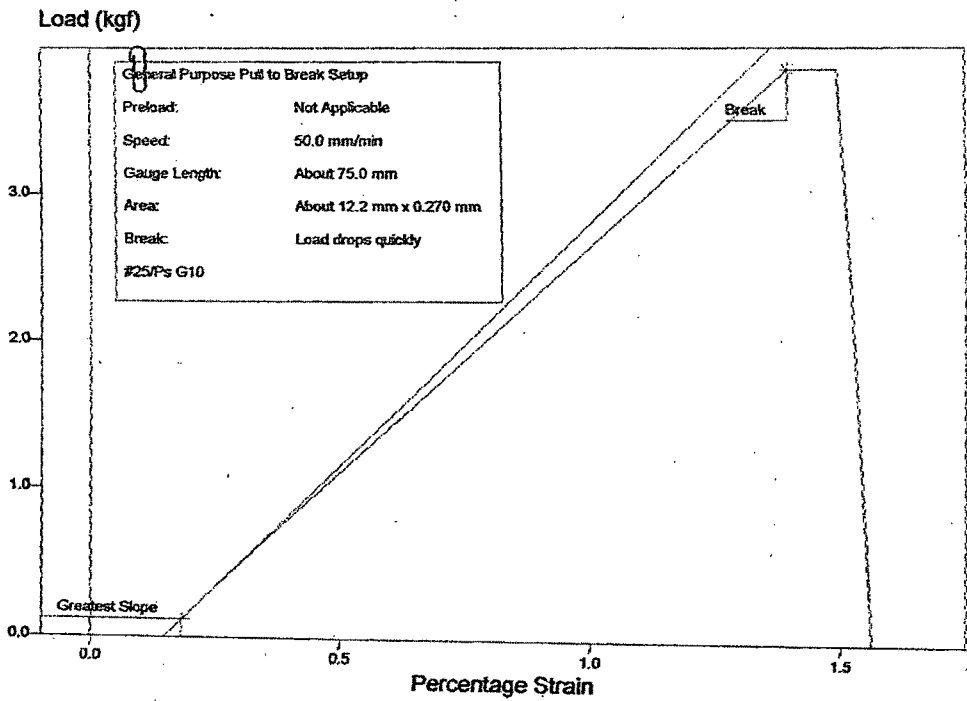
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Tensile Test Report

Date : 21/03/06
Time : 11:17:01 AM #25_Ps C10
Sample Reference : #25_Ps G10
Gauge Length : 75.000 mm
Width : 12.200 mm
Breadth : 0.27000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.8497 kgf	116.87 kgf/cm ²	1.3955	9985.8 kgf/cm ²	43025.0 N/m



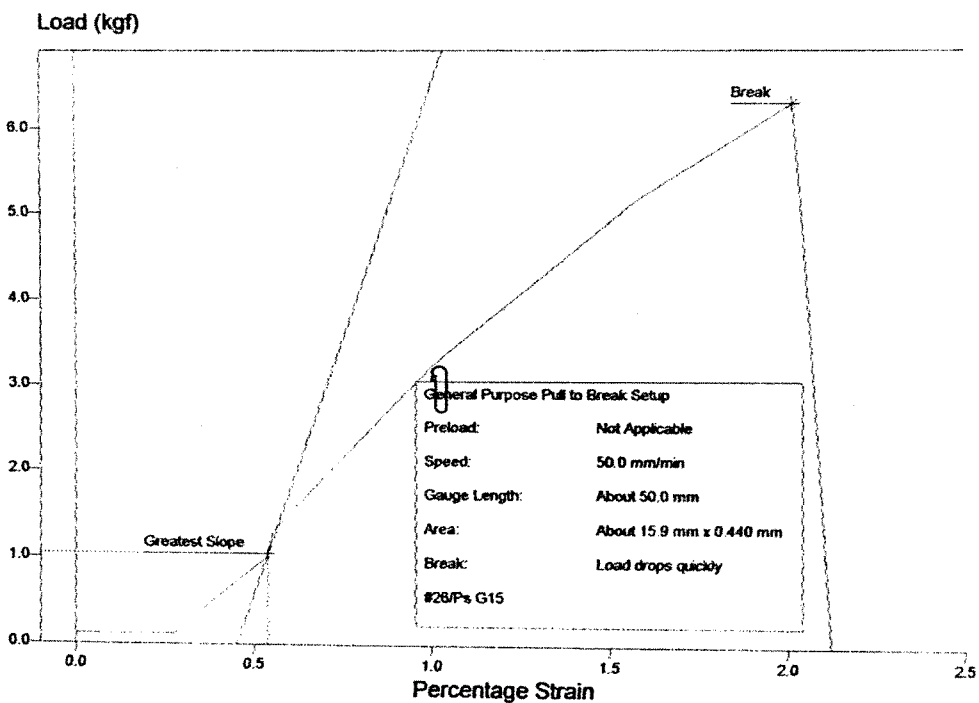
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Tensile Test Report

Date : 21/03/06
Time : 11:24:26 AM
Sample Reference : #26_Ps G15
Gauge Length : 50.000 mm
Width : 15.950 mm
Breadth : 0.44000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
6.2913 kgf	89.645 kgf/cm ²	2.0185	16850.0 kgf/cm ²	232020 N/m



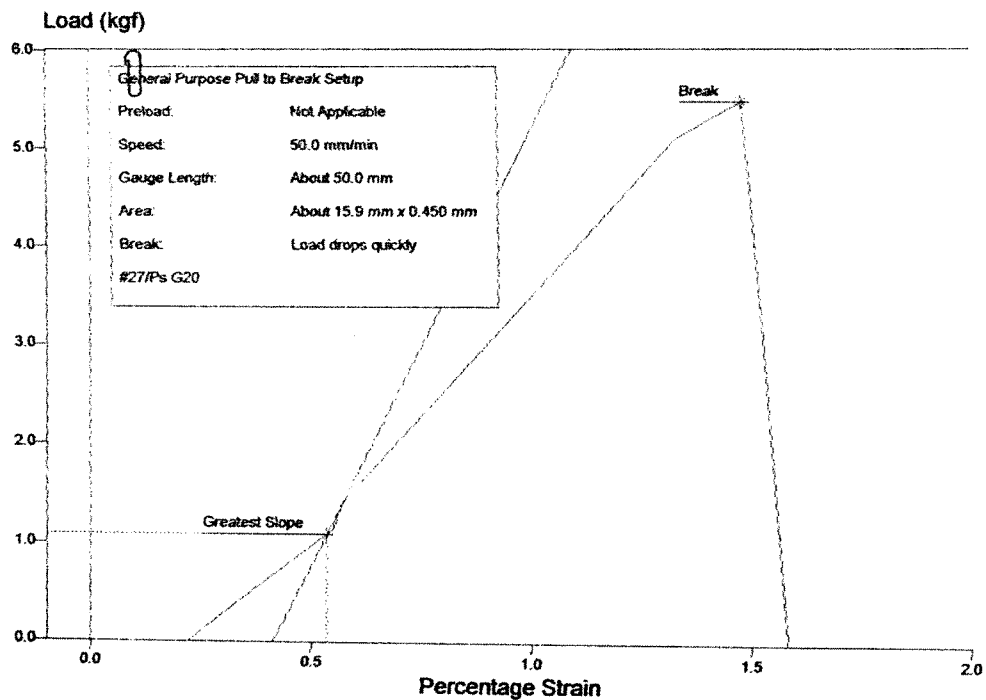
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Tensile Test Report

Date : 21/03/06
Time : 11:28:43 AM
Sample Reference : #27_Ps G20
Gauge Length : 50.000 mm
Width : 15.900 mm
Breadth : 0.45000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
5.4732 kgf	76.495 kgf/cm ²	1.4799	12331.0 kgf/cm ²	173100 N/m



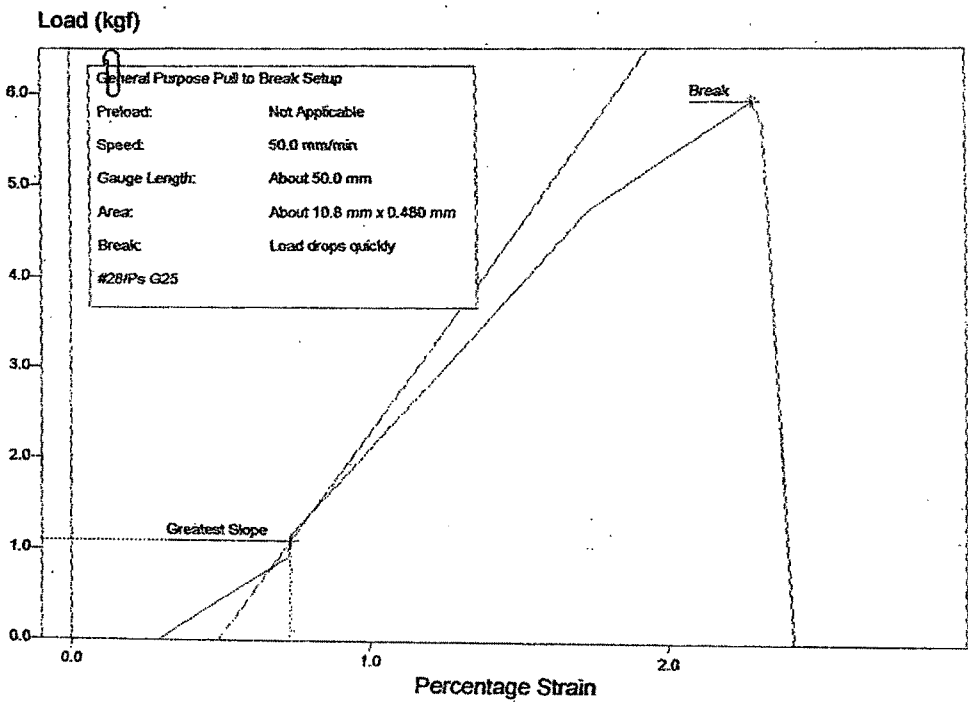
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Tensile Test Report

Date : 21/03/06
Time : 11:33:05 AM
Sample Reference : #28_Ps G25
Gauge Length : 50.000 mm
Width : 10.750 mm
Breadth : 0.48000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
5.9090 kgf	114.52 kgf/cm ²	2.2838	8689.1 kgf/cm ²	87968.0 N/m



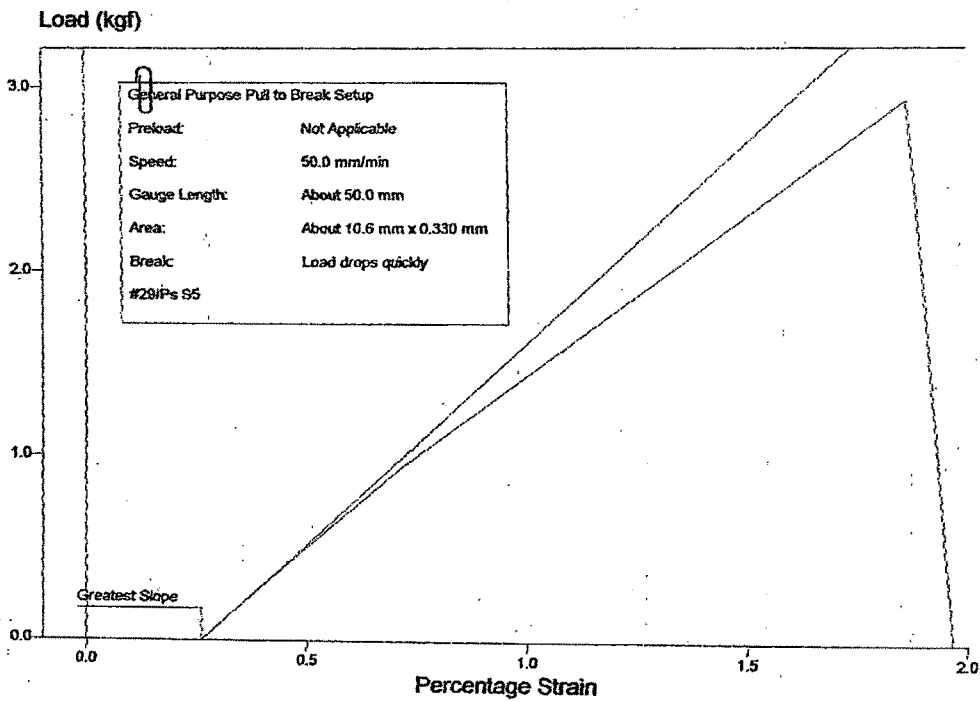
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Tensile Test Report

Date : 21/03/06
Time : 11:37:28 AM
Sample Reference : #29_Ps S5
Gauge Length : 50.000 mm
Width : 10.600 mm
Breadth : 0.33000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
2.9252 kgf	83.625 kgf/cm ²		6213.8 kgf/cm ²	42646.0 N/m

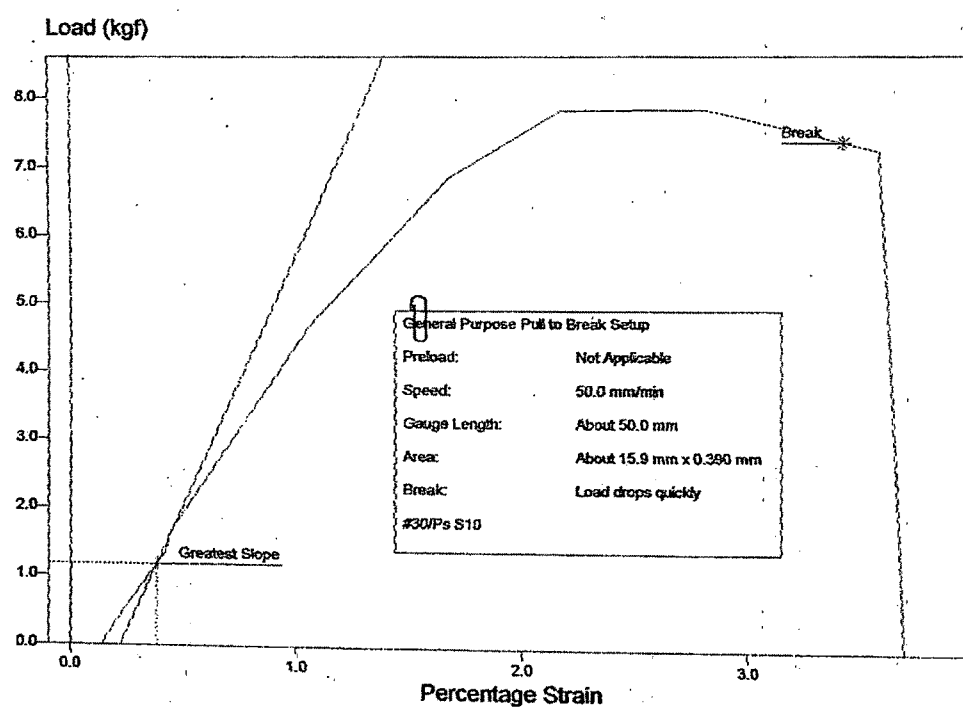


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Date : 21/03/06
Time : 11:41:33 AM
Sample Reference : #30_Ps S10
Gauge Length : 50.000 mm
Width : 15.900 mm
Breadth : 0.39000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
7.8262 kgf	126.21 kgf/cm ²	3.4276	11824.0 kgf/cm ²	143850 N/m



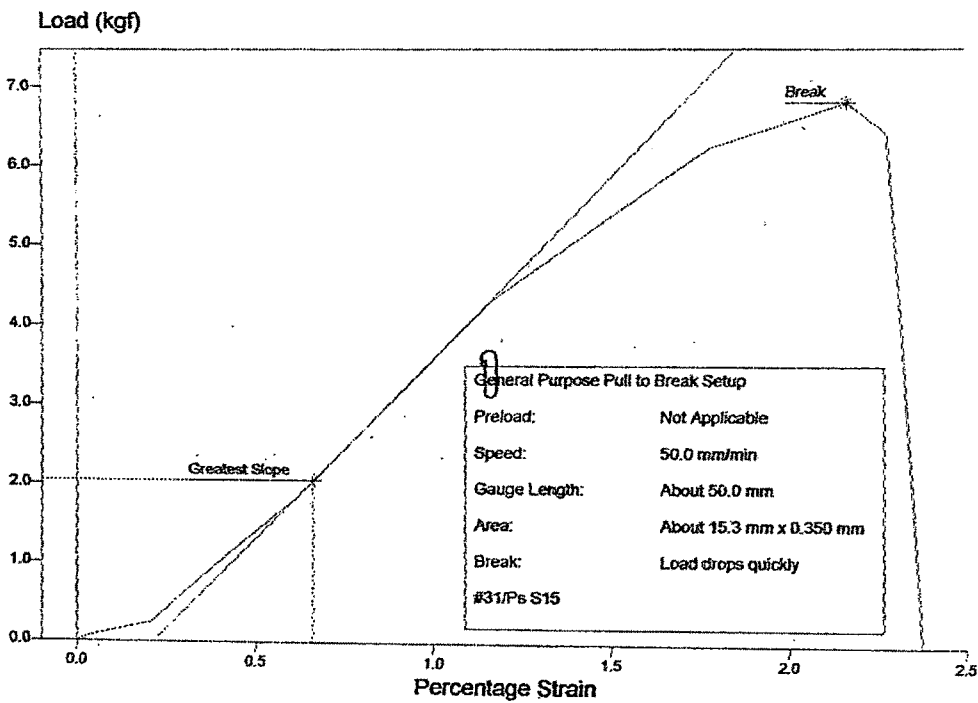
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Tensile Test Report

Date : 21/03/06
Time : 11:44:45 AM
Sample Reference : #31_Ps S15
Gauge Length : 50.000 mm
Width : 15.300 mm
Breadth : 0.35000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
6.7982 kgf	126.95 kgf/cm ²	2.1681	8496.8 kgf/cm ²	89271.0 N/m



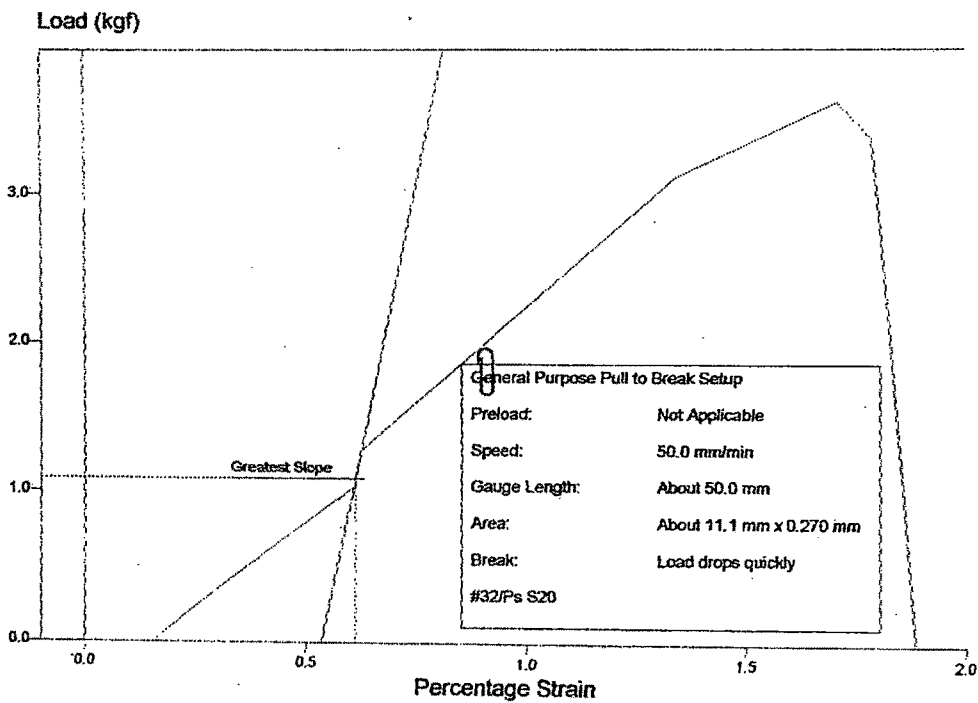
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Tensile Test Report

Date : 21/03/06
Time : 11:53:16 AM
Sample Reference : #32_Ps S20
Gauge Length : 50.000 mm
Width : 11.090 mm
Breadth : 0.27000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.6156 kgf	120.75 kgf/cm ²		47203.0 kgf/cm ²	277310 N/m



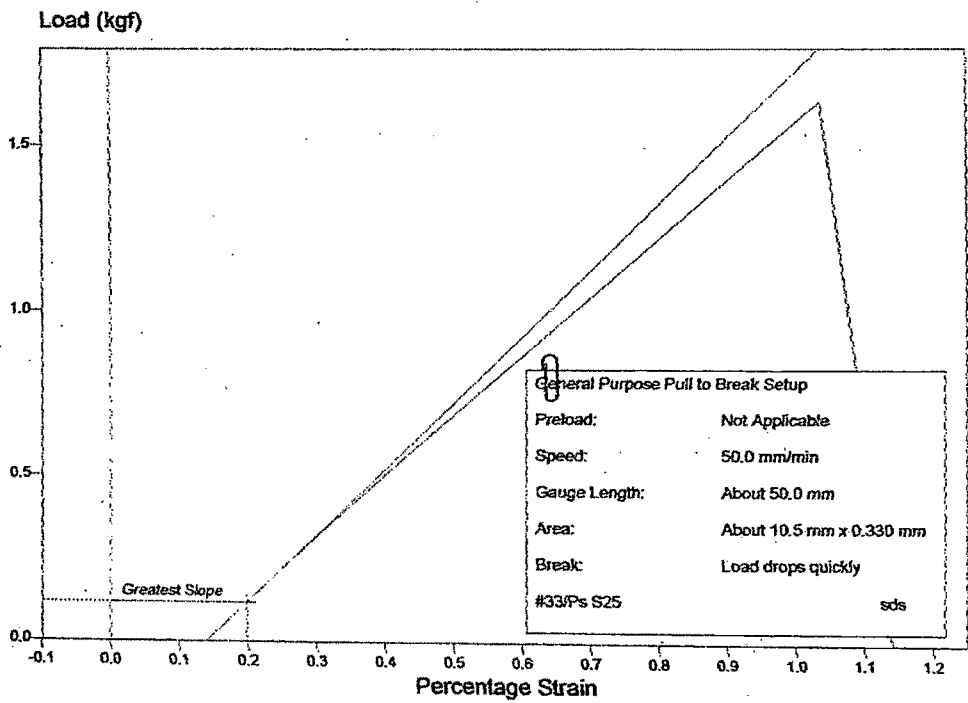
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Tensile Test Report

Date : 21/03/06
Time : 11:58:13 AM
Sample Reference : #33_Ps S25
Gauge Length : 50.000 mm
Width : 10.520 mm
Breadth : 0.33000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
1.6304 kgf	46.963 kgf/cm ²		5758.1 kgf/cm ²	39220.0 N/m.



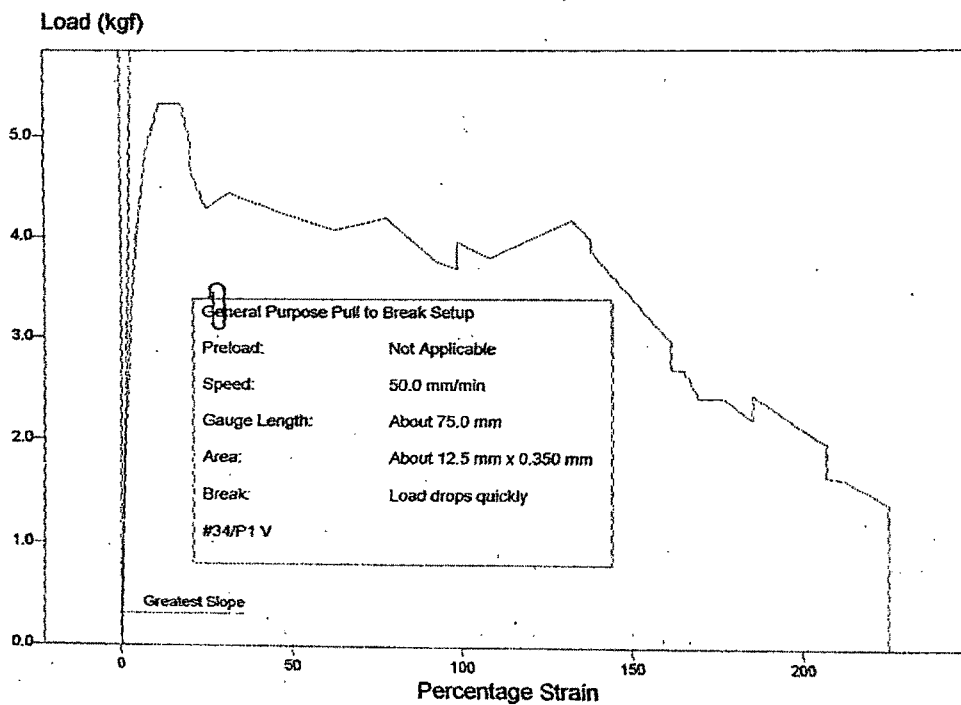
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Tensile Test Report

Date : 21/03/06
Time : 12:05:07 PM
Sample Reference : #34_P1 V
Gauge Length : 75.000 mm
Width : 12.500 mm
Breadth : 0.35000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
5.3277 kgf	121.78 kgf/cm ²		4119.0 kgf/cm ²	23571.0 N/m



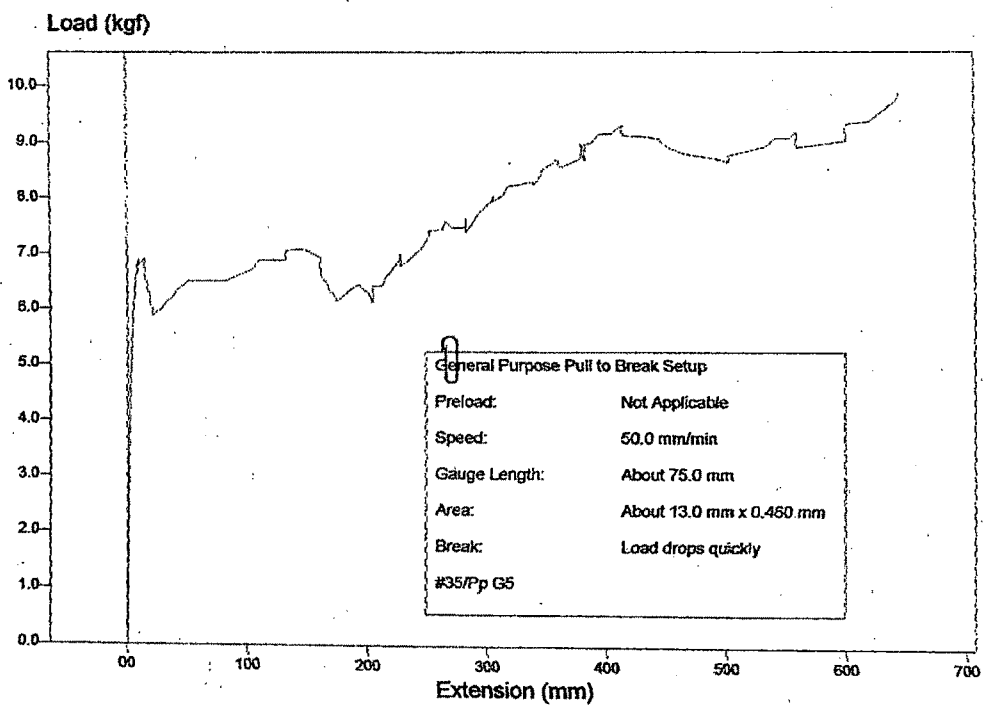
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Tensile Test Report

Date : 21/03/06
Time : 12:15:24 PM
Sample Reference : #35_Pp G5
Gauge Length : 75.000 mm
Width : 13.000 mm
Breadth : 0.46000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness



Reached maximum limit
and no break observed.

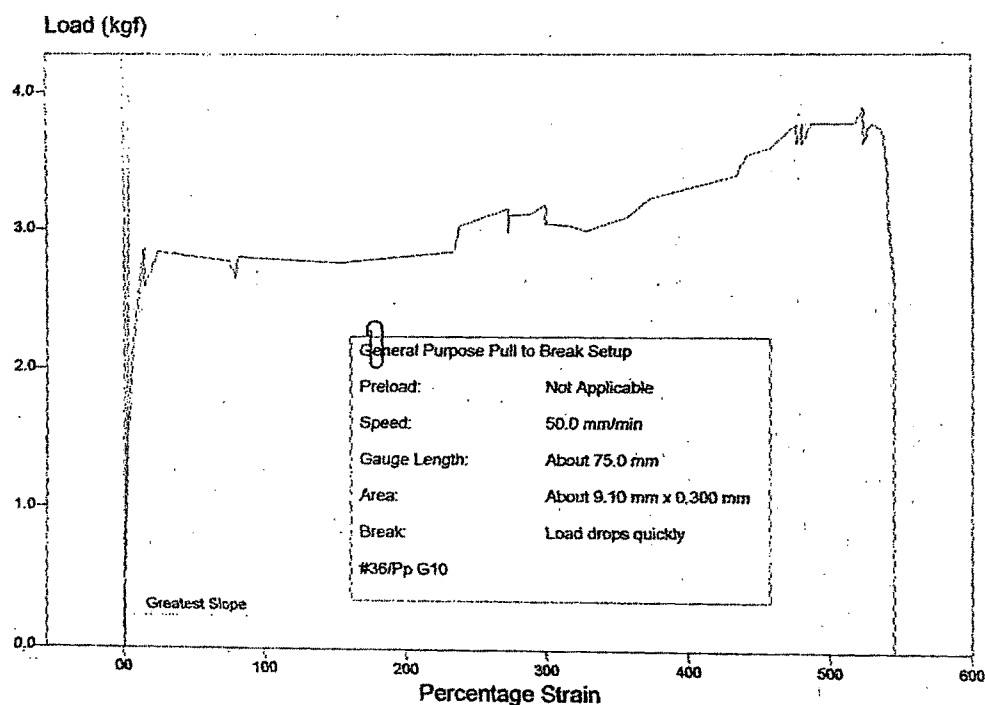
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Sample Test Report

Date : 21/03/06
Time : 12:33:02 PM
Sample Reference : #36_Pp G10
Gauge Length : 75.000 mm
Width : 9.1000 mm
Breadth : 0.30000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.8943 kgf	142.65 kgf/cm ²		3299.7 kgf/cm ²	11783.0 N/m



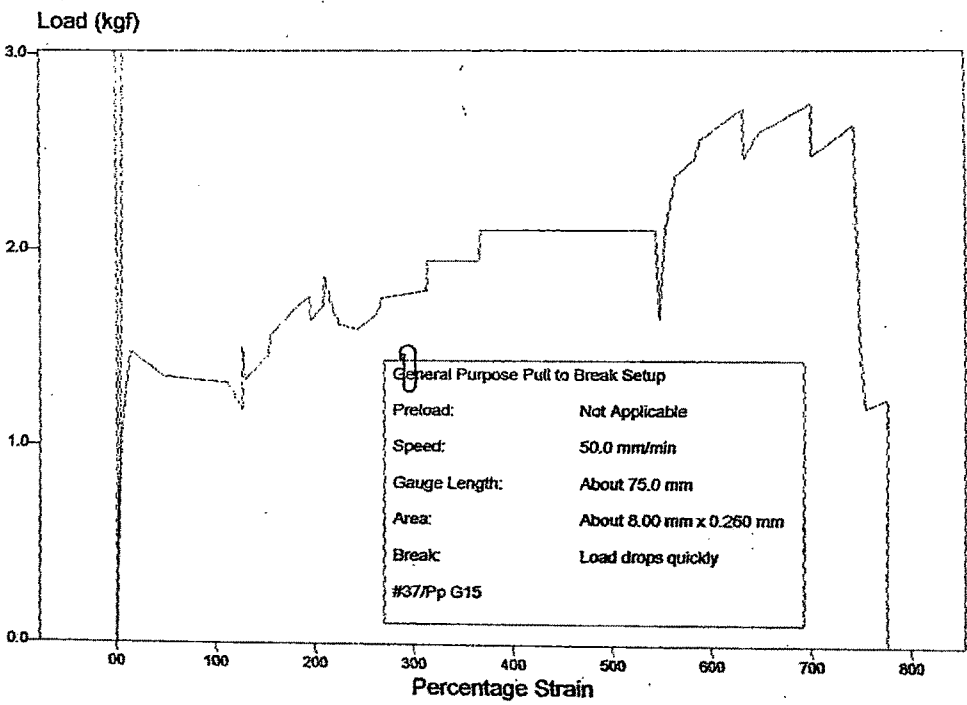
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM

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Tensile Test Report

Date : 21/03/06
Time : 12:45:15 PM
Sample Reference : #37_Pp G15
Gauge Length : 75.000 mm
Width : 8.0000 mm
Breadth : 0.26000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
2.7461 kgf	132.02 kgf/cm ²		2090.2 kgf/cm ²	5686.6 N/m



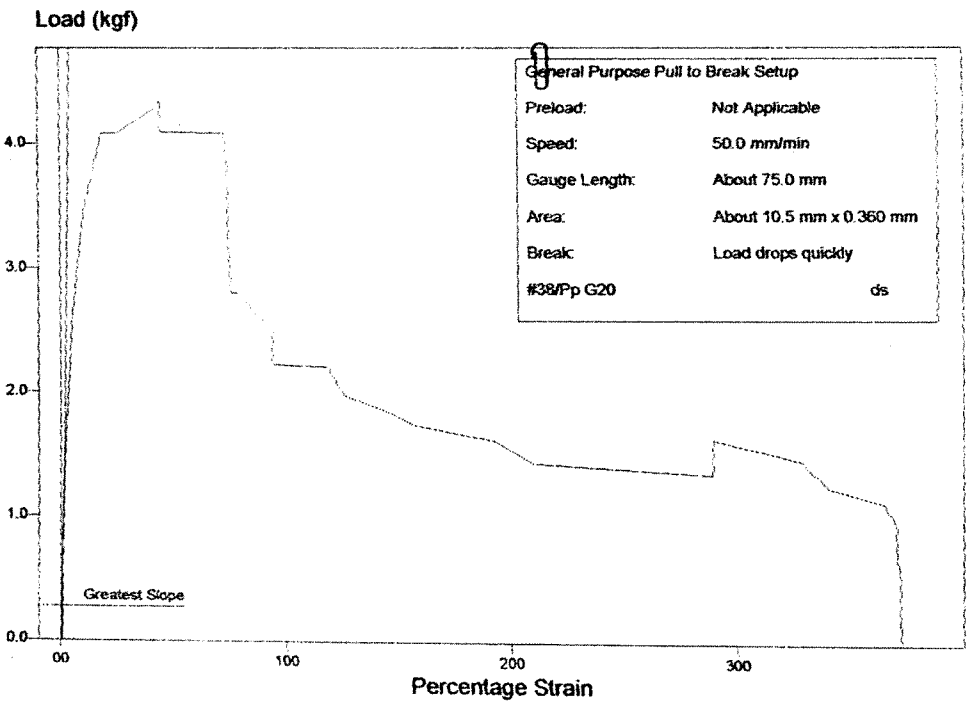
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus 1177

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Tensile Test Report

Date : 21/03/06
Time : 1:01:03 PM
Sample Reference : #38_Pp G20
Gauge Length : 75.000 mm
Width : 10.500 mm
Breadth : 0.36000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
4.3436 kgf	114.91 kgf/cm ²		2860.1 kgf/cm ²	14141.0 N/m



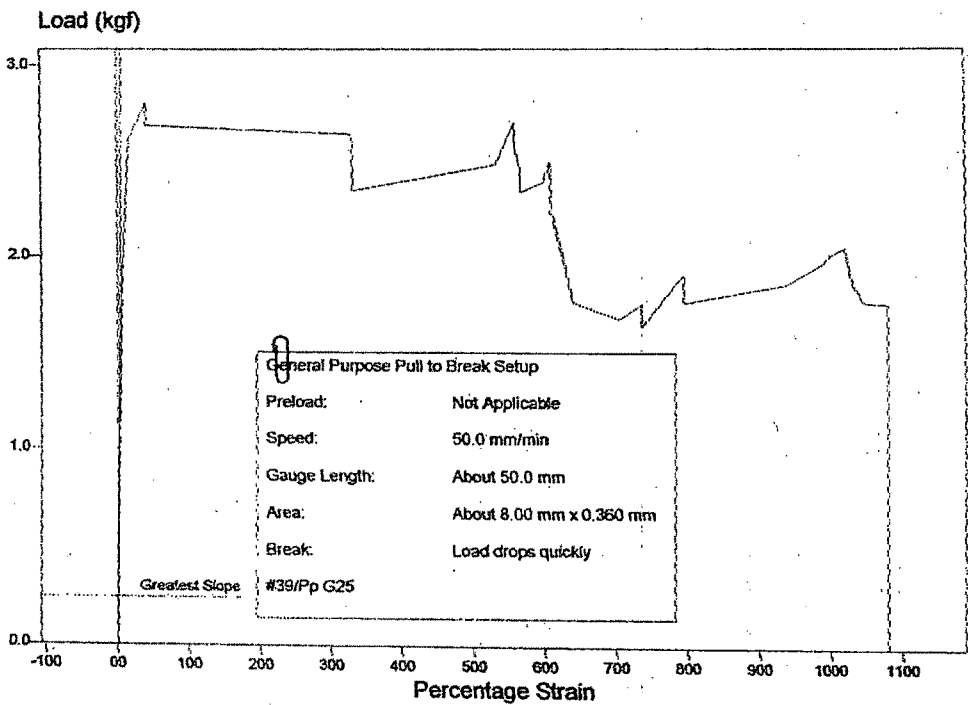
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Tensile Test Report

Date : 21/03/06
Time : 1:13:23 PM
Sample Reference : #39_Pp G25
Gauge Length : 50.000 mm
Width : 8.0000 mm
Breadth : 0.36000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
2.8060 kgf	97.430 kgf/cm ²		1663.3 kgf/cm ²	9398.7 N/m



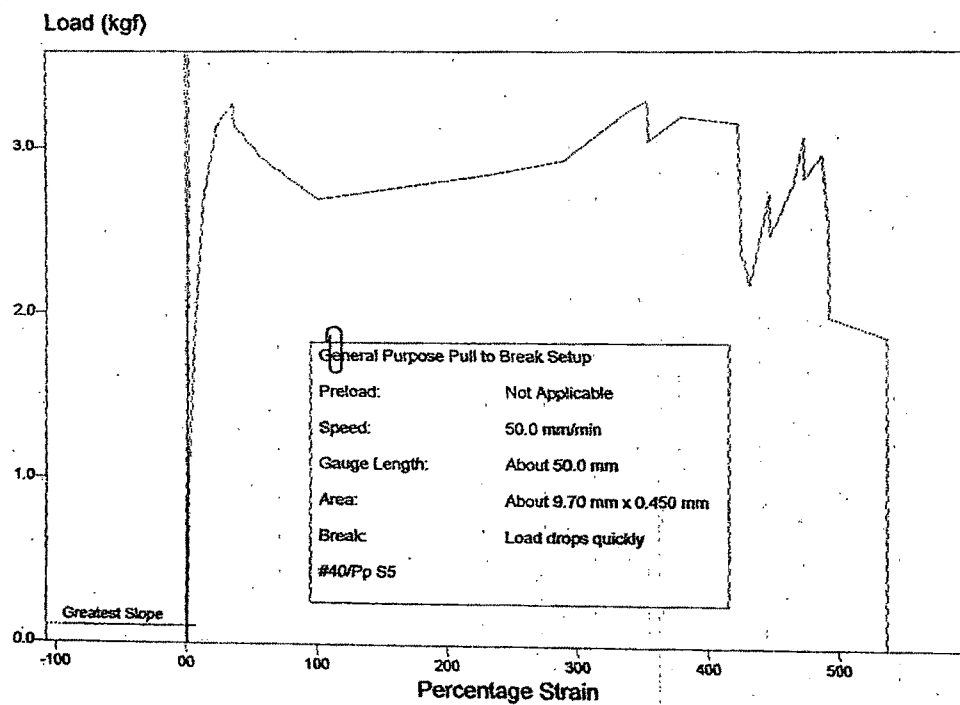
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Sample Test Report

Date : 21/03/06
Time : 1:28:02 PM
Sample Reference : #40_Pp S5
Gauge Length : 50.000 mm
Width : 9.7000 mm
Breadth : 0.45000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.2836 kgf	75.225 kgf/cm ²		4192.9 kgf/cm ²	35909.0 N/m



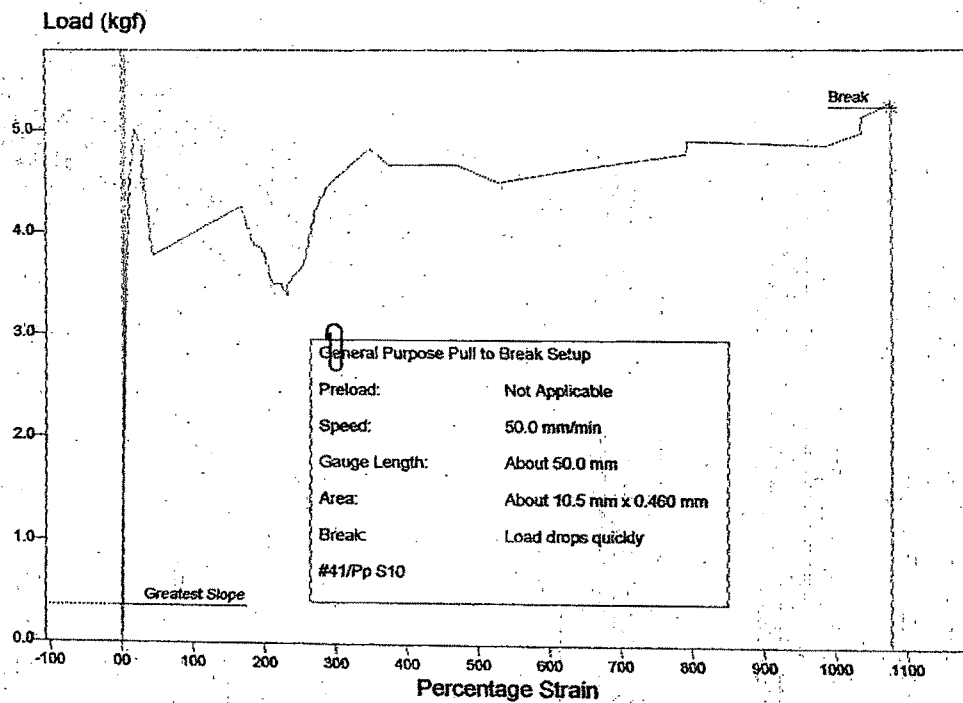
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Tensile Test Report

Date : 21/03/06
Time : 1:36:48 PM
Sample Reference : #41_Pp S10
Gauge Length : 50.000 mm
Width : 10.500 mm
Breadth : 0.46000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
5.2648 kgf	109.00 kgf/cm ²	1076.9	2559.5 kgf/cm ²	24255.0 N/m



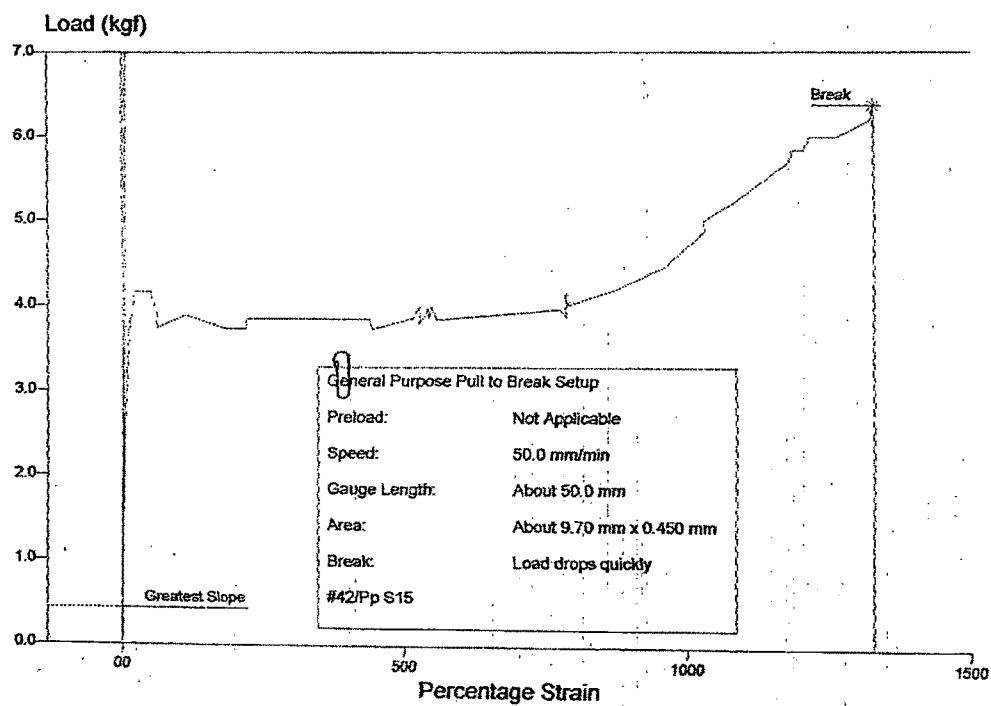
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Tensile Test Report

Date : 21/03/06
Time : 1:51:11 PM
Sample Reference : #42_Pp S15
Gauge Length : 50.000 mm
Width : 9.7000 mm
Breath : 0.45000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
6.3645 kgf	145.81 kgf/cm ²	1327.6	2270.1 kgf/cm ²	19441.0 N/m



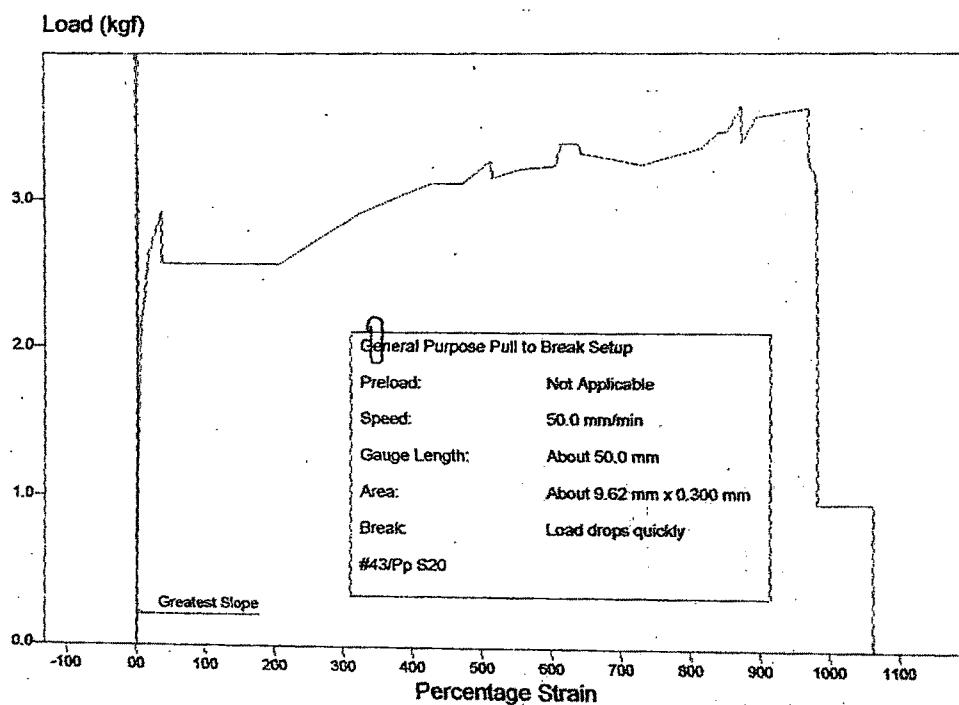
This Report was produced using NEXYGEN from Lloyd LR 30 K Plus UTM.

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Tensile Test Report

Date : 21/03/06
Time : 2:07:51 PM
Sample Reference : #43_Pp S20
Gauge Length : 50.000 mm
Width : 9.6200 mm
Breadth : 0.30000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
3.6367 kgf	126.01 kgf/cm ²		4313.3 kgf/cm ²	24423.0 N/m



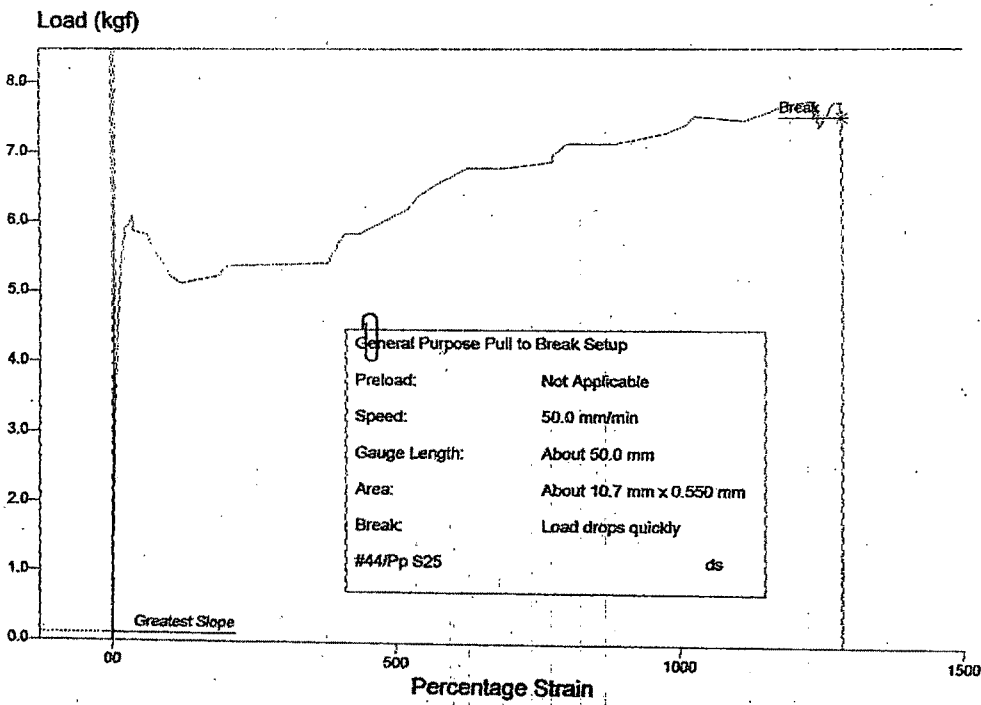
This Report was produced using NEHYGEN 6.01.11.000000

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Tensile Test Report

Date : 21/03/06
Time : 2:21:42 PM
Sample Reference : #44_Pp S25
Gauge Length : 50.000 mm
Width : 10.680 mm
Breadth : 0.55000 mm

Maximum Load	Shear Strength	% Elongation at Break	Young's Modulus	Stiffness
7.7187 kgf	131.40 kgf/cm ²	1285.4	3216.8 kgf/cm ²	37073.0 N/m



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