

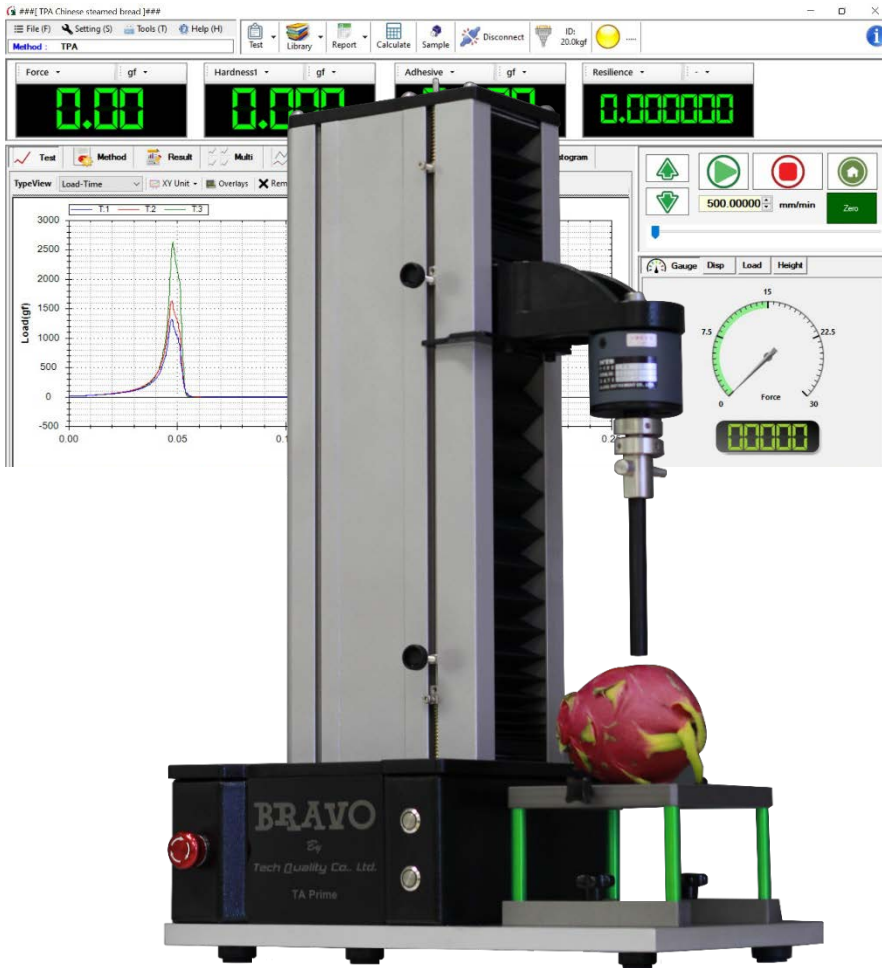
FOOD *Texture* ANALYZER

BRAVO

By Tech Quality Co.,Ltd.



Made In Thailand



Food



Cosmetics



Pharmaceuticals

Ordering Information

Tech-Quality Co.,Ltd

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LINE

Food Texture Analyzer

Model TA Prime

The Stealth TA Prime Series

Table Top Food Texture Analyzer are designed to test a wide spectrum of materials including low force application for a wide range of food types, including baked goods, cereals, confectionaries, snacks, dairy, fruit, vegetables, gelatins, meat, poultry, fish, pasta and even pet food & Packaging etc.



In food texture testing, standard tests such as compression, tension and flexure are used to measure Adhesive, Adhesiveness, Brittleness, Chewability, Chewiness, Cohesiveness, Elasticity, Fracturability, Gumminess, Hardness 1, Hardness 2, Hardness Workdone, Resilience, Rubberiness, Springiness, Stringiness, Elongation, Strength etc.

Simple to use Test Setup

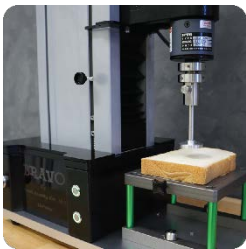
Limit Testing Break Testing
Loop Testing Preload Setup
Elongation Auto Return, Over
Load Protection, Auto Save
after test

Multi-control mode

- Constant speed
- Constant Displacement
- Multi-step control

Applications

- Food & Packaging, etc.
- Bulk Analysis
 - Tension / Compression
 - Extrusion / Back Extrusion
 - Puncture & Penetration
 - Shear
 - Bend & Break
 - Peel & Seal



Texture Profile Analysis



Shear Test



Crispness Test



Extrusion Test

Force Resolution
1/500,000

11

Force measurement
range
0.5% to 100% FS

10

Data Transfer
Rate to PC 1 kHz.

9

Results can be color
coded for immediate
pass/fail recognition

8

Standards Library
Test Project

7

FEATURE TA PRIME

6

Multi graph
display

- * Load vs Time
- * Load vs Stroke
- * Elongation vs Time
- * Load vs Elongation
- * Stress vs Strain
- * Stress vs Stroke

1

"NTS" Load Cell
Grade 0.05%

2

US Digital
Encoder

3

Modern extruded
profile High-quality
load-frame design

4

10 Point calibration
adjustment

5

High Accuracy
Ball Screw

Specifications

TA Prime Machine Capacity : 1KN

Crosshead Speed Range : 15-800mm/min

Displacement Resolution : 0.00001mm

Crosshead Travel : 300 mm

Load Cell Accuracy : +/- 0.1% FS

Speed Accuracy : 2%

Data Transfer : Rate to PC 1 kHz.

Operating Temperature : 5° to 35°C (41° to 95°F)

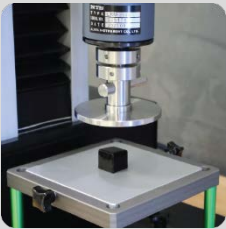
Communication port : USB

Supply Voltage : 220Vac ±10% 50-60 Hz 3Amp

High Accuracy : Ball Screw Type

Weight Approx : 30 kg

Warranty : 1 Year



Grass Jelly



Burger Patties



Potato Chips



Plant based
crispy pork



Mangoes



Mantou



Noodle



Papaya



Seaweed



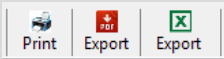
Pumpkin



Wafer



Tomato
Souce

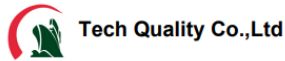


Excel , PDF
User design reports

Multi Display & Decimal Point

Displays ToolBox

Variable	Unit	Decimal
Display 1 Force	N	2
Display 2 Hardness1	gf	3
Display 3 Crispness	-	3
Display 4 Stringiness	s	6
Display 5 Adhesiveness	N/s	3



Tech Quality Co.,Ltd

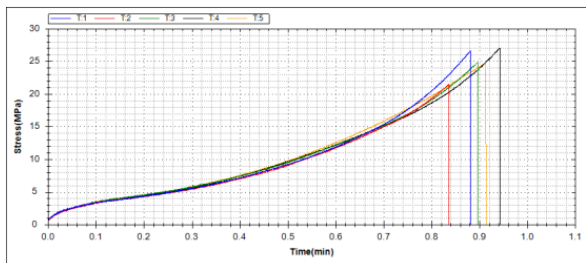
Address : 2/13 Sukapiban 2 Rd., Pravet , Bangkok 10250 Thailand.

Tel : +662 3286878 (Auto)

Website : www.tech-quality.com

ID LINE : @techquality

No	Date	Time	Sample Name	Max Load (N)	Strength (MPa)	Elong @ Break (%)	Stress @ 300% (MPa)
T1	15/11/2564	2:12:39 PM	AT4/2	13.3078	26.6156	636.8040	5.1382
T2	15/11/2564	2:17:27 PM	AT4/2	10.7363	21.4727	648.4660	4.9046
T3	15/11/2564	2:25:10 PM	AT4/2	12.3998	24.7996	616.2240	5.4528
T4	15/11/2564	2:28:01 PM	AT4/2	13.5199	27.0398	651.0140	5.1901
T5	15/11/2564	2:31:34 PM	AT4/2	12.3998	24.7996	620.5360	5.4951
Min				10.7363	21.4727	616.2240	4.9046
Max				13.5199	27.0398	651.0140	5.4528
Mean				12.4727	24.9455	634.6088	5.2002
SD				1.0977	2.1953	15.8273	0.2275
COV				8.8008	8.8006	2.4940	4.3750



Multi-stage testing with Bravo software

Program Toolbox 1.0.0.4

Directions: Compress | Speed:Unit: 99mm/min | Break Type: Load | Shift: <= | Target: 1.kgf

Step	Direct	Control Break Type	Speed:mm/min	Target:Unit
1	Tensile	PreLoad	1000.mm/min	1:N
2	Tensile	Load	50.mm/min	15:N
3	Tensile	Stroke	300.mm/min	29mm
4	Tensile	Stress	20.mm/min	10.kgf/mm2
5	Compress	Load	99.mm/min	1.kgf

Sample Information

Sample

Shape: Circular

Sample Name: Crocodile | Number:

Unit: mm

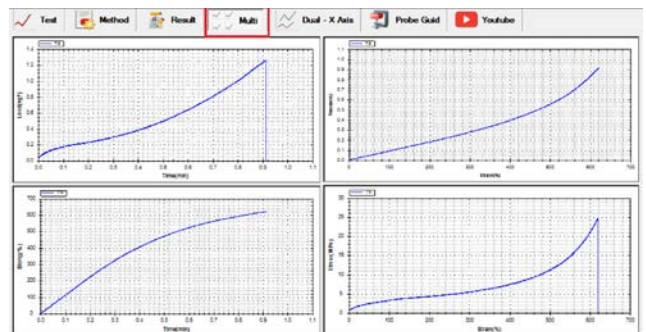
Parameter(mm): Width: 0.0, Thickness: 0.0, ID: 0.0, OD: 0.0, Gauge Length: 50.000, Diameter: 10.000, Span length: 0.0

Peel Set: StartPoint: 4.00, EndPoint: 25.00, Temperature: 25

Area: 78.540 mm

Auto Selete Tab Number: | Sampling points: 100

Multi Graph Display



Statistic Reports

Report Column Statics Images HeadersAdd Remove

Template Name: Maximum | Company Name: Quality Co.,Ltd

Header	Value
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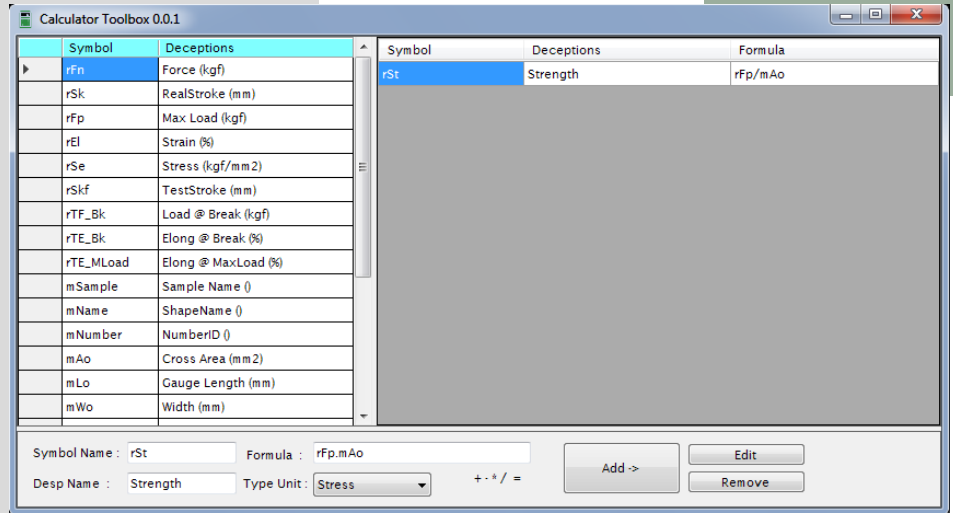
Auto test setup & load protect

Auto Zero before Test
 Auto Save after Test Complete
 Auto Return to home after Test
 Auto Return to Limit after Test

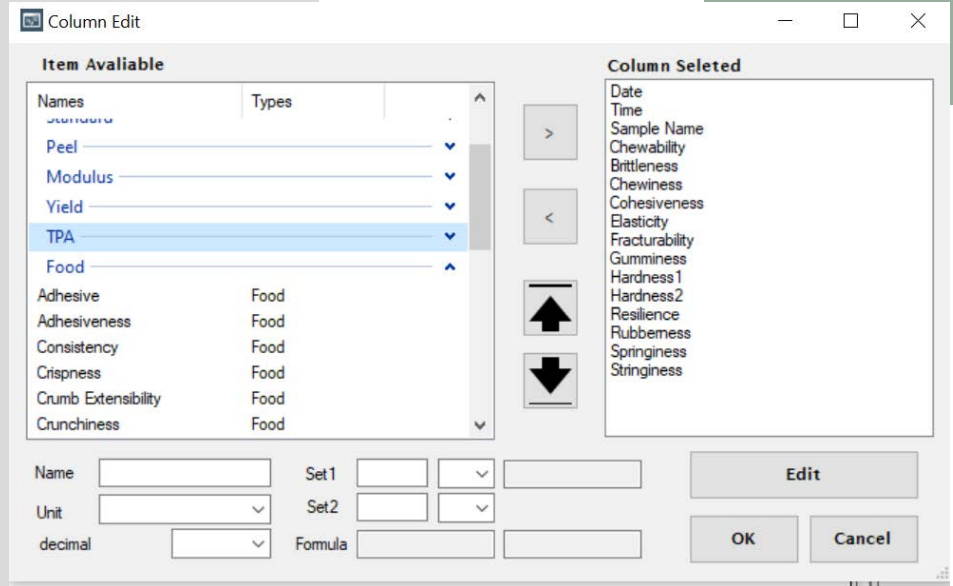
Setting: Return Speed: 900.0 mm/min | Load Protect: 80 % 16.00 kgf

Sensor: Stroke Rub Extensometer Extensometer

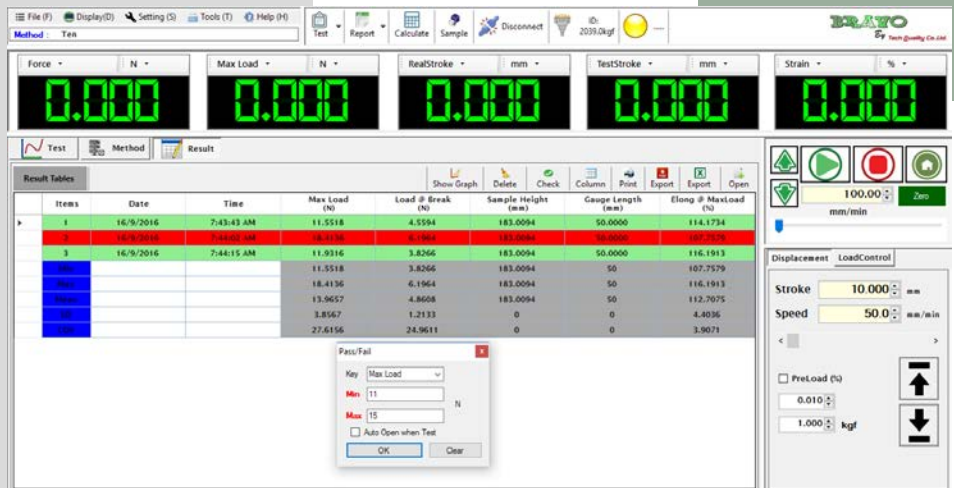
Formula Design By User



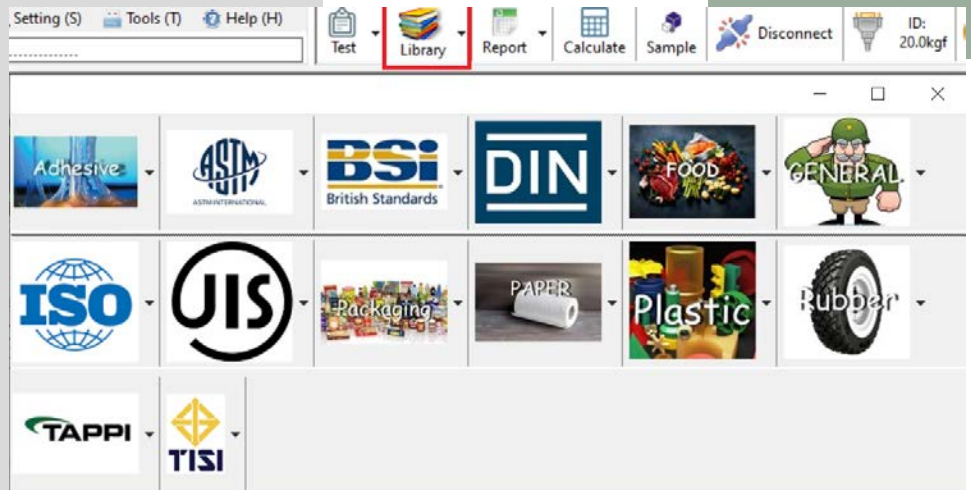
Selectable Result



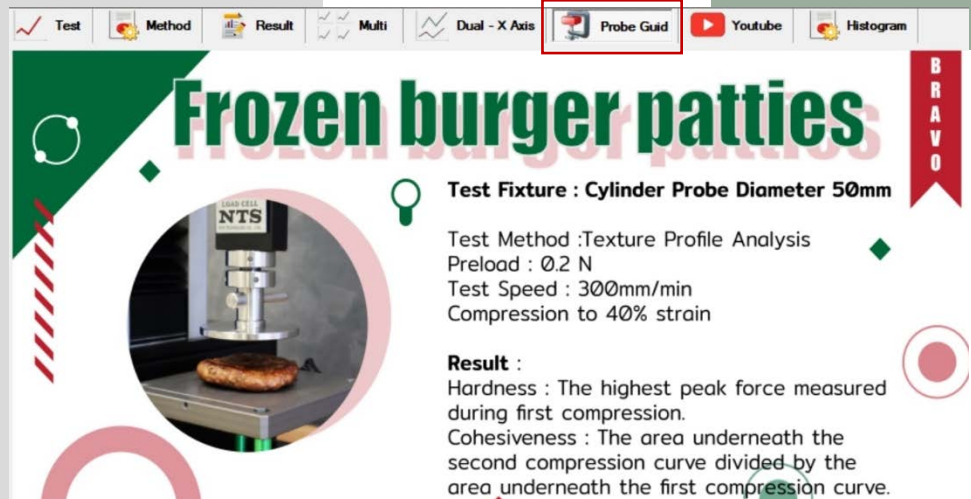
Color Coded for Immediate Pass/fail



Standard Library



Probe Guide



YouTube Guide

