**Production: NORI** 

Objective: Measurement of the burst strength of nori (dried sheet seaweed for sushi)

Type of action: Burst test

# Test mode settings:

Speed	Test mode	Trigger	Target	Hold
1 mm/s	Distance (c)	5 gf	5 mm	0 sec

#### Accessory:

Film Penetration (SP05) rig, Platform

#### **Sample Preparation:**

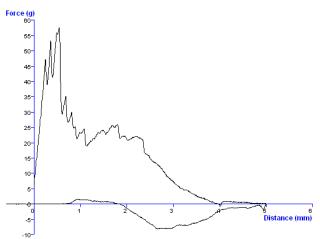
Sheets of nori are cut into small squares approximately 30 mm x 30 mm. Five samples of nori were tested to generate the results below.

## Test Set-Up:

The film support rig is fitted to the heavy duty platform and positioned loosely on the machine base. The spherical probe is connected to the load cell with a probe adaptor (AD10) and the film support rig is aligned with the spherical probe to ensure the probe can move centrally through the aperture without contacting the film support rig. When positioning is complete the heavy duty platform is fixed securely to the machine base.

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#### **Typical plots:**



100-90-80-70-60-50-40-30-20-10-0 1 2 3 4 5 Distance (n

Graph 1. Typical Texture Analyzer Plot for a Nori Sheet Sample

Graph 2. Texture Analyzer Plot for Nori

#### Observations:

The test begins with the probe moving at the pre-test speed. When the probe reaches the surface of the nori and the trigger force is reached the probe speed changes to the test speed and data is recorded. As the probe deflects the nori the force increases until the sample bursts. The peak force is the burst strength and the displacement is the distance to burst, which is an indication of the flexibility of the nori.

### Data Analysis:

#### **Results**

Film Sample Type	Mean Burst Strength (+/- S.D.) (g)	Mean Distance to Burst (+/- S.D.) (mm)
Nori	127.4 +/- 11.06	0.50 +/- 0.10

## Notes:

This application study can be extended to other film/sheet samples. The target distance may need to be increased for more flexible films and a higher capacity load cell may be required for thicker, higher burst strength films.