



### Standard Tests for Coated Fabrics

These tests apply to rubber coated fabrics such as tarpaulins, rainwear, and similar products.

- Breaking Strength by Grab Test
- Burst Strength
- Puncture Resistance
- Tearing Resistance by Tongue Tear Test
- Adhesion of Coating To Fabrics
- Seam Strength
- Crush Strength (requires 1200 pounds)

Procedure: varies by test

### Overall Test System Requirements

- Control test machine within specifications from 0.2 to 12 inches per minute.
- Tension and Compression
- Accurate load measurements
- Typical Report Requirements
  - Capture peak tension value
  - Specimen width
  - Unitized Load values (per width)
  - TestResources machine details
  - Crosshead speed
  - Standard deviation

### First Recommendation:

- 1000M System with load cell selected
- ZPM Software optional for real time curves
- Jaws to fit specific tests
- Note: other systems are available

### Test Requirements

#### Breaking Strength by Grab Test

- 12 inches per min
- Maximum load retained
- Grip Requirements
  - 1 X 1 inch Face Jaw
  - 1 X 2 inches wide Jaw
  - Rounded radii

#### Burst Strength

- 12 ipm
- Ring Clamp (44 mm diameter)
- 1 inch diameter polished steel ball.

#### Puncture Resistance

- Same as burst but with flared puncture probe

#### Adhesion of Coating to Fabric

- 2 or 12 ipm
- 1 X 3 inch wide jaws

#### Seam Strength

- 12 ipm
- 1 X 3 inch wide jaws

#### Crush Strength – Fabrics with Rubber or Plastics

- 0.2 ipm
- Compression force to 1200 pounds
- 100 X 100 mm platens
- 10 X 75 mm D751 Load Button

#### Tearing Resistance by Tongue Tear Test

- 2 ipm
- 1 X 2 inch wide jaws
- Load cell selected to fall in 15 to 85% range of test.