



# 90° Angle Peel Fixture

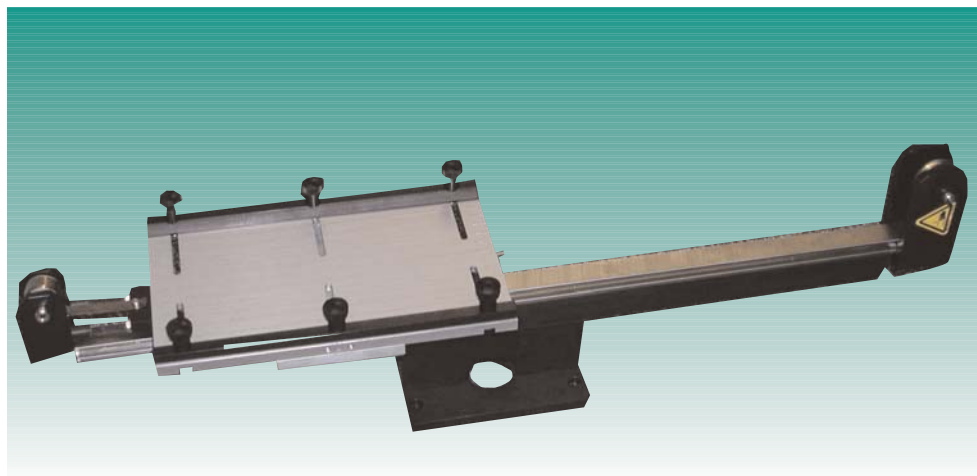
## Catalog Number 2820-035

### Features

- Measures bond strength between laminated surface coatings, films, packaging and their rigid backings
- Maintains a 90° angle peel that prevents any exertion of outside forces on the laminate
- Substrate alignment etchings in metric and US customary units
- Adjustable holding straps to accommodate substrates up to 127 mm wide
- Load weighing system monitors force to provide a direct measurement of bond strength

### Description

The fixture consists of a bearing mounted table, which is linked to the test system via a cable and pulley, as well as anchored on the back by a dampening coil spring. As the crosshead is driven in the tensile direction, the cable pulls the table to maintain a constant 90° angle peel, and the coil spring keeps the table from reacting to inertia caused by load peaks and troughs.



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2820-035 90° angle peel fixture mounted on a dual column system

### Principle of Operation

The 90° angle peel fixture measures the bond strength between laminated surface coatings, films, packaging, and their rigid backings, as well as other bonded structures.

This design features etched lines and cross slots on the table to accommodate substrate installation. The etchings are on 10 mm and 0.50 in intervals from the center, up to 60 mm, and 2.5 in at the extremes. The cross slots allow the clamping straps to be adjusted to hold substrates from 10 mm to 127 mm widths.

To initiate a test, the laminate is partially peeled from the backing medium. The medium is then inserted into the fixture and the free end of the sample is inserted into an appropriate upper grip. The upper grip that is connected to the crosshead is then driven in the tensile direction and the laminate is peeled from the backing at a constant 90° angle peel.

The force required to peel the laminate is monitored by the load weighing system, providing a direct measurement of bond strength.

### Application Range

- 90° angle peel tests
- Films, tapes laminated surface coatings, labels and decals

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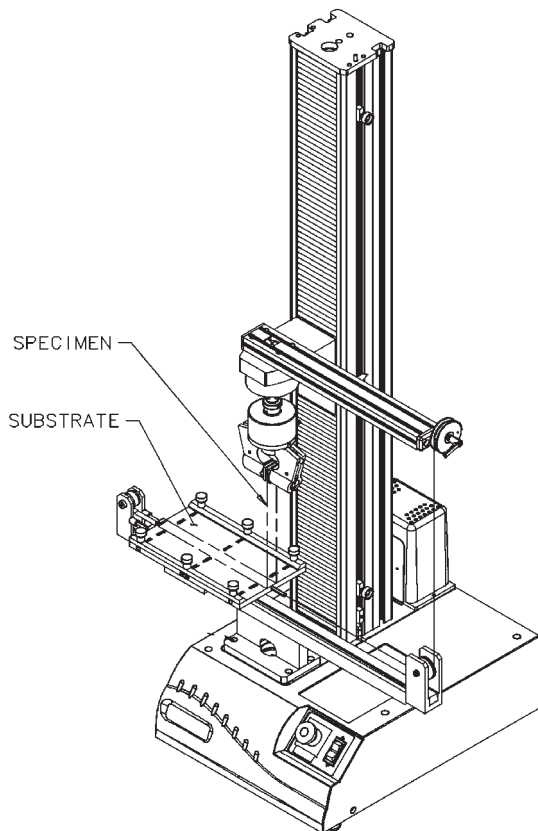
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### Specifications

<b>Catalog Number</b>	<b>2820-035</b>
<b>Associated Standards</b>	ASTM B 571 and ASTM D 2861
<b>Peel Angle</b>	90°
<b>Maximum Load</b>	1 kN (100 kgf, 225 lbf)
<b>Table Width</b>	150 mm (5.91 in)
<b>Table Length</b>	250 mm (9.84 in)
<b>Maximum Substrate Width</b>	127 mm (5 in)
<b>Maximum Substrate Length</b>	250 mm (9.84 in)
<b>Slide Rail Length</b>	704 mm (27.7 in)
<b>System Compatibility</b>	With A1 mounting option: 334X, 444X, 554X, 584X Single Column systems With A2 mounting option: 336X, 446X, 556X, 586X, 338X, 448X, 558X, 588X Dual Column systems With A3 mounting option: 1122, 1123, 1125 Dual Column systems With A4 mounting option: 4411 system
<b>Additional Equipment Requirements</b>	Requires appropriate upper grip (not supplied)

#### Note:

1. Other systems may require additional adapters. Contact Instron® technical support for information.



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Typical installation on a single column test system



**Corporate Headquarters**  
Instron Corporation  
825 University Avenue, Norwood, MA 02062-2643 USA  
Tel: +1 800 564 8378 or +1 781 575 5000 Fax: +1 781 575 5725

**Instron Industrial Products**  
900 Liberty Street, Grove City, PA 16127-9969, USA  
Tel: +1 724 458 9610 Fax: +1 724 478 9614

**European Headquarters**  
Instron Limited  
Coronation Road, High Wycombe, Bucks HP12 3SY, UK  
Tel: +44 1494 464646 Fax: +44 1494 456123

[www.instron.com](http://www.instron.com)

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