

The 90° angle peel 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.

### Features and Benefits

- 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

### Application Range

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

### 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.

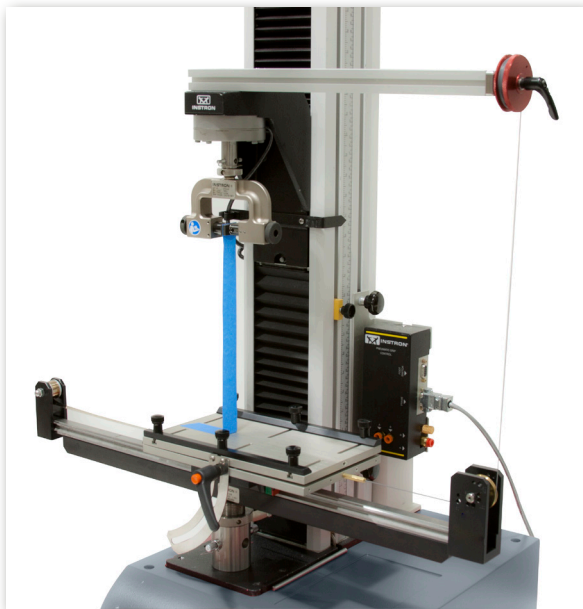


Catalog Number 2820-035

Associated Standards		ASTM B571, D429, D2861, D3330 (Method F), D6862
Peel Angle		90°
Maximum Load	kN	1
	kgf	100
	lbf	225
Table Width	mm	150
	in	5.91
Table Length	mm	250
	in	9.84
Maximum Substrate Width	mm	127
	in	5
Maximum Substrate Length	mm	250
	in	9.84
Slide Rail Length	mm	704
	in	27.7
System Compatability	A1 Mount	334X, 444X, 554X, 584X Single Column System
	A2 Mount	336X, 446X, 556X, 596X, 338X, 448X, 558X, 588X, 598X Dual Column System
Additional Equipment Requirements		Requires appropriate upper grip (not supplied)

**Note:**

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



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