

90° & VARIABLE ANGLE PEEL FIXTURE

Catalog Numbers 2820-035, 036

Both the 90° peel test fixture and the variable angle peel test fixture consist of a bearing-mounted sled that is linked to the testing machine's crosshead by a cable and pulley system. The variable angle peel fixture has a sled with a T-slot sled onto which you secure the substrate material. The 90° peel fixture has only a T-slot sled. The T-slots allow the substrate clamps, which secure the substrate to the sled, to adjust to a variety of substrate widths.

PRINCIPLE OF OPERATION

Peel fixtures provide a condition of use to measure the bond strength between laminated surface coatings, films, packaging, and their rigid backings, as well as other bonded structures.

To initiate a test, one end of the specimen is secured to a substrate that is, in turn, secured to the T-slot sled, and the other end is inserted into the appropriate grip. As the crosshead moves in the tension direction, the cable pulls the sled laterally along the guide rail to maintain a constant angle for the peel (90° angle or the pre-set angle on the variable peel fixture). This prevents any exertion of outside forces on the specimen. The force required to peel the specimen is monitored by the load cell on the crosshead, providing a direct measure of bond strength.

FEATURES AND BENEFITS

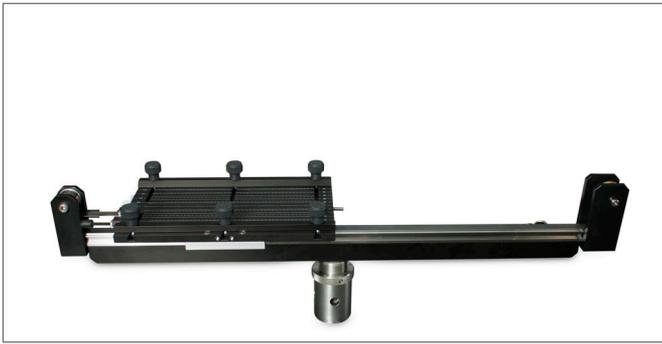
- Adjustable holding straps to accommodate substrates up to 127 mm wide
- Maximum operating temperature: 60°C (140°F)
- Load weighing system monitors force to provide a direct measurement of bond strength
- Upper fittings: Use appropriate grip



2820-035 90° Peel Fixture on 68TM-50



2820-036 Variable Angle Peel Fixture on 34SC-5



90° Angle Peel Fixture



Variable Angle Peel Fixture

SPECIFICATIONS

| | | 2820-035 | 2820-036 |
|---|----------|--|---------------------------|
| Associated Standards | | ASTM B571, D2861, D3330 (Method F), D6252, D6862 | ASTM B571, D2861 |
| Peel Angle | | 90° | 30, 45, 60, 90, 130, 150° |
| Maximum Load | kN | 1 | 1 |
| | kgf | 100 | 100 |
| | lbf | 225 | 225 |
| Table Width | mm | 150 | 150 |
| | in | 5.91 | 5.91 |
| Table Length | mm | 250 | 250 |
| | in | 9.84 | 9.84 |
| Maximum Substrate Width | mm | 127 | 130 |
| | in | 5 | 5.1 |
| Maximum Substrate Length | mm | 250 | 250 |
| | in | 9.84 | 9.84 |
| Maximum Substrate Thickness | mm | 7 | 7 |
| | in | 0.27 | 0.27 |
| Slide Rail Length | mm | 704 | 732.5 |
| | in | 27.7 | 28.84 |
| System Compatibility | A1 Mount | 334X, 3400, 444X, 554X, 584X, 594X, 6800 Single Column Systems | |
| | A2 Mount | 336X, 3400, 446X, 556X, 596X, 338X, 448X, 558X, 588X, 598X, 6800 Dual Column Systems | |
| Minimum Rigid Substrate / Carrier Plate Width for Clamping | in | 1.5 | 1.5 |
| | mm | 40 | 40 |
| 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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