



Rotating German Wheel Peel Fixture

Catalog Number 2820-026

Features

- Precisely measures adhesive strength of tapes, laminated release coatings, paper and plastic films
- Attaches directly to most Instron® materials test systems
- Maintains constant 90° peel angle for accurate measurements

Description

The fixture consists of a 152 mm (6.0 in) diameter, 25.4 mm (1 in) wide, bearing mounted wheel. As the crosshead is driven in the tensile direction, the load weighing system measures the force of the tape or release coating pulling against the wheel. The rotation of the wheel maintains a constant 90° peel angle.

Principle of Operation

The rotating German wheel peel fixture measures the bond strength of tapes, laminated release coatings and paper and plastic films.

The backing of the release film is attached to the wheel with two-sided adhesive tape or the tape is attached directly to the wheel. To initiate a test, the fixture is attached to the base of the materials testing system. The release coating is then partially peeled from the backing medium or the tape is partially peeled from the wheel and the free end of the sample is inserted into an appropriate upper grip. The upper grip, which is connected to the crosshead, is then driven in the tensile direction and the tape or release coating is peeled from the wheel or the backing at a constant peel angle.

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

Application Range

- Laminated release coatings
- Paper and plastic films



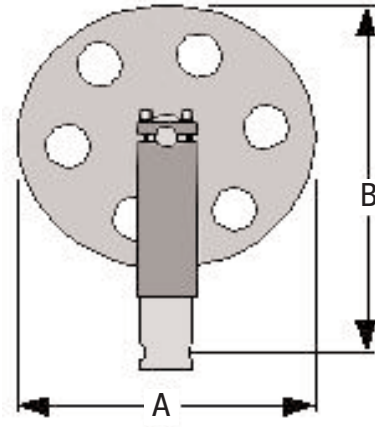
▲ Rotating German wheel peel fixture

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Specifications

Catalog Number	2820-026
Associated Standards	ISO 6133 and IPC-TM-650 2.4.9
Peel Angle	90°
Maximum Load	1 kN (100 kgf, 225 lbf)
Wheel Diameter (A)	150 mm (6.0 in)
Wheel Circumference	479 mm (18.84 in)
Wheel Width	28 mm (1.12 in)
Total Height	210 mm (8.25 in)
Effective Length (B)	194 mm (7.63 in)
Temperature Range	Ambient to 175 °C (350 °F)
System Compatibility	Directly compatible with systems fitted with Instron® type D base adapters (1/2 in clevis pin). Other systems may require additional adapters. Contact Instron technical support for information
Additional Equipment Requirements	Requires appropriate upper grip (not supplied)



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Fixture dimensions



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