

tesa®

TESA® 4120

CROSS CUT & X-CUT TEST TAPE

ASTM D3359 COMPLIANT

FIBER REINFORCED ADHESION TEST TAPE

For Cross Cut and X-Cut Adhesion Testing

TESA® 4120 is a premium **fiber reinforced** adhesive tape specially designed for adhesion tests performed by Cross Cut and X-Cut methods.

It ensures a strong, stable bond to the coating surface during the test and allows precise evaluation of coating adhesion.

- ✓ **Fiber Reinforced Tape** for superior tear resistance and dimensional stability
- ✓ **Excellent adhesion** to a wide range of coatings and substrates
- ✓ **Clean removal** with minimal adhesive residue
- ✓ **Conforms to ASTM D3359 methodology**
- ✓ **Reliable, consistent and easy to use**



Applying the TESA® 4120 tape



Firmly pressing the tape



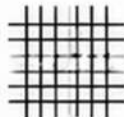
Removing the tape at 180°



DESIGNED FOR ACCURATE ADHESION TESTING

Cross Cut Test

A lattice pattern of cuts is made on the coating, then the tape is applied over the area, pressed and removed quickly at 180°. The amount of coating removed from the substrate is evaluated.



X-Cut Test

Two diagonal cuts are made to form an "X", the tape is applied over the cut area, pressed and removed at 180°. The percentage of coating removal around the intersection is evaluated.



These methods are widely used in the paint, coating, automotive, aerospace, marine, and industrial finishing industries to evaluate coating adhesion performance.

TECHNICAL INFORMATION

Product Type	Fiber Reinforced Test Tape
Backing Material	Fiber Reinforced Film
Adhesive Type	Synthetic Rubber
Total Thickness	Approx. 160 µm
Color	Transparent / Natural
Width	25 mm (2.5 cm)
Length	20 m
Core Diameter	76 mm
Storage Conditions	10 – 30 °C, 40 – 60 % RH
Shelf Life	24 months from date of manufacture



KEY FEATURES

- Fiber Reinforced**
High tensile strength, resists tearing and ensures consistent results
- Strong Adhesion**
Ensures excellent bonding to coatings during testing
- Clean Removal**
Minimal residue for accurate evaluation
- ASTM D3359 Compliant**
Designed specifically for Cross Cut and X-Cut adhesion tests

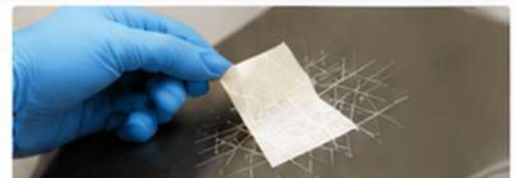
TEST RESULTS – ASTM D3339-23

Run	Width (mm)	Peel Rate (mm/s)	Peel Force (N)	Adhesion Strength (N/cm)
1	25.0	5	16.24	6.50
2	25.0	5	16.42	6.57
3	25.0	5	16.06	6.42
Average Adhesion Strength				6.50 N/cm

Peel Rate:
5 mm/s (180° peel test)

Peel Force:
The force required to peel the tape from the coated surface.

Adhesion Strength:
Peel force divided by the tape width.



ACCEPTANCE RANGE ACCORDING TO ASTM D3359
The acceptance range for adhesion strength is 6.37 to 7.00 N/cm. TESA® 4120 results (Average: 6.50 N/cm) are within this range.

TYPE & APPLICATION

- Paints and Coatings
- Powder Coatings
- Automotive Refinishing
- Aerospace Coatings
- Industrial and Marine Coatings
- Plastic Coatings

STORAGE & HANDLING

Store in original packaging, away from direct sunlight and moisture.
Allow tape to reach room temperature before use.
Press tape firmly onto the surface using a rubber roller or squeegee.

ORDER INFORMATION

Product Code : TESA 4120
Width : 25 mm (2.5 cm)
Length : 20 m
Packaging : Individual roll
Case Quantity : 36 rolls

tesa®

Reliable. Accurate. Consistent.
TESA® 4120 – Your trusted solution for Cross Cut and X-Cut adhesion testing.

www.tesa.com