# FT 1149X

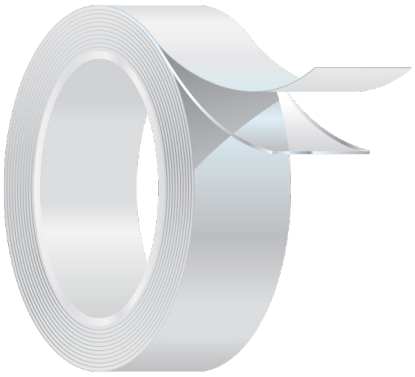
Avery Dennison FT 1149X is a 5.0 mil transfer tape with a high performance low VOC modified acrylic adhesive. It bonds very well to low surface energy materials and features good foam bonding properties and high heat resistance. FT 1149X is commonly used in automotive applications and where low VOC properties are required.

## FEATURES:

- Unsupported adhesive
- Low outgassing high performance modified acrylic adhesive
- Poly coated kraft release liner

## BENEFITS:

- Highly conformable to curved or irregular surfaces
- Solvent free adhesive with good foam bonding performance
- Good heat resistance
- Good moisture stability and lay flat properties



## CONSTRUCTION:

**Liner:**
82# Natural Poly Coated Kraft

**Adhesive:**
Low VOC Acrylic

## FT 1149X

| Adhesive Properties: | | Typical Values | | |
|---|---|---|---|---|
| **Thickness** | ASTM D-3652 | **US mil** | **mm** | **micron (µm)** |
| Liner | | 5.8 | 0.15 | 145 |
| | | | | |
| | | | | |
| Adhesive | | 5.0 | 0.13 | 125 |
| | | | | |
| Total Caliper without Liner: | | 5.0 | 0.13 | 125 |
| Total Caliper: | | 10.8 | 0.27 | 270 |

**PEEL ADHESION** Test Method(s): PSTC-101, ASTM D-3330

2 mil PET 72 hr dwell 180º 12 in /min (305 mm / min)

| Substrate | | Lbf / In | N / Meter |
|---|---|---|---|
| **SS** | | 10.0 | 1,750 |
| | | | |
| | | | |
| | | | |
| **ABS** | | 10.0 | 1,750 |
| | | | |
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**LOOP TACK** Test Method(s): PSTC-16

2 mil PET Initial 20 in / min (508 mm / min)

| Substrate | | Lbf / In | N / Meter |
|---|---|---|---|
| **SS** | | 5.0 | 880 |
| | | | |
| | | | |
| | | | |
| | | | |

**STATIC SHEAR** Test Method(s): PSTC-107, ASTM D 3654

2 mil PET 72 hr dwell 1" sq (6.5 cm2) 1000 g

| Substrate | | Mins to Fail | |
|---|---|---|---|
| **SS** | | 10,000 | |
| | | | |
| | | | |
| | | | |
| | | | |

| TEMPERATURES | º F | º C |
|---|---|---|
| Minimum Application Temperature | 50° F | 10° C |
| Minimum Service Temperature | -40° F | -40° C |
| Maximum Service Temperature | 350° F | 175° C |

## APPLICATION TECHNIQUES

- It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied be clean, dry, and free of grease or oil
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed
- Note that different pressure, time and temperature on different (film / rigid) surface achieves different performance

## STORAGE / SHELF LIFE

- One year when stored at 64-72ºF (18-22ºC) / 30-70% relative humidity, out of direct sunlight and in original packaging.

Please refer to Tapes.AveryDennison.com for complete terms and conditions, including warranty terms, relating to this product. You should periodically review the site as terms and conditions are subject to change without notice.



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