



# Technical Data Sheet

Tape & Adhesive

## 3M Double Coated Tissue Tape C1173

NOV 2017

**Product Description** 3M Double Coated Tissue Tape C1173 is a non-woven tape coated on both side with a high adhesion acrylic pressure sensitive adhesive. This tape is protected by a polycoated paper release liner. It is soft adhesive with high initial tack. 3M High Performance Acrylic Adhesive provides high bond strength to most surfaces and reliability.

**Features**

- This tape is reliable with high initial tack.
- Easy to bond to many surfaces including metal, plastics, foam and others.
- This tape has a non-woven carrier makes it easier to handle the tape during punching use and die-cutting.

<b>Product Construction</b>	Adhesive Type	Acrylic Adhesive
	Tape thickness	0.100 mm (+/- 0.02 mm)
	Tape color	Off-white
	Carrier/Backing	Non-woven tissue
	Release Liner	Polycoated Kraft Paper, green 3M Logo printed (0.140 mm)

**Typical Physical Properties** **Note: The following information and data should be considered representative or typical only and should not be used for specification purposes.**

Adhesion Strength		(N/100mm)
ASTM D3330	SS	80
90° Peel Strength	PC	64
Jaw Speed: 12 inch/min	PP	52
72 hours dwell time		

Relative High Temperature  
Operating Ranges

Long Term (days, weeks)	60°C - 70°C
Short Term (minutes, hours)	80°C - 120°C

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- Application Idea**
- General purpose joining and mounting application
  - Holding and bonding of electronics devices
  - Electronics components bonding and attachments
  - Appliances parts bonding and attachments
  - Automotive interior parts attachments
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**Application Technique** Bond strength is dependent upon the amount of adhesive-to-surface contact developed, firm application pressure helps develop better adhesive contact and improve bond strength.

To obtain optimum adhesion, the bonding surface must be clean, dry and well unified. Typical surface cleaning solvent is isopropyl alcohol and water mixed (75:25). Be sure to follow the manufacturer's precautions and directions when use the solvents.

Ideal tape application temperature range is 21 °C to 38 C. Initial tape application to surface at temperature below 10 °C is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

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**Shelf life** 12 months from date of manufacture when stored in original cartons at 21<sup>o</sup> -25<sup>o</sup> Celsius and maximum 50% relative humidity

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