# **3M** Double Coated Tissue Tape 90775

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Technical Data		Dec. 2010	
Product Description	3M <sup>™</sup> 90775 is a tissue tape with both side with a high adhesion acrylic pressure sensitive adhesive. This tape is protected by a polycoated white paper release liner with blue 3M logo printed.  It features dimensional stability and improved handling with ease of die cutting and laminating because of non-woven with high tensile strength. 3M <sup>™</sup> High		
	Feature	• 90775 provides excellent initial tack and adhesion to a wide variety surface including many low surface energy plastics.	
	• This tape has a non-woven carrier which can add dimensional stability and also makes it easier to handle the tape during punching use and die-cutting.		
Application Idea	General purpose joining and mounting application at indoor and outdoor use		
	<ul> <li>Holding and bonding of electronic parts</li> <li>Electronic Components Bonding / Attachments</li> </ul>		
Construction	Product	90775	
	Adhesive Type	High Performance Acrylic adhesive	
	Tape Thickness	$0.08 \; \text{mm}(\pm 15\%)$	
	Tape Color	Off-White	
	Carrier	Tissue	
	Release Liner	Silicone treated Poly Coated Kraft	
		(Blue 3M logo printed)	
		Ship Ship Ship Ship Ship Ship Ship Ship	
	Liner Thickness	0.135mm (± 10%)	
	Roll Size	1200mm wide 50M, 100M	

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Typical Physical Properties and Performance Characteristics

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

Product	90775		
180 ° Peel Strength	<u>kg/in</u>		
ASTM D-3330			
Initial			
SS	1.0		
PC	1.0		
PP	0.6		
RT 72hr			
SS	1.1		
PC	1.3		
PP	0.7		
Tensile &Elongation			
ASTM D-3822			
D-5035	<u>MD</u>	<u>CD</u>	
Tensile (kg/in)	4.0	0.8	
Elongation (%)	5	2	
Shear Strength ASTM D-3654 modified – (1 inch²) on SUS 1000gram at RT (23±2°C) Relative High Temperature Operating Ranges:	>10,000min		
Long Term(days, weeks)	195°F(90℃)		
Short Term(minutes, hours)	250°F(120°C)		
Release Level	25 g/in		
ASTM D-3330			
Shelf Life	12months from date of manufacture when stored in original cartons at room temperature & 50% RH		

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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 surfaces must be clean, dry and well unified.
   Typical surface cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or heptane.

**Note**: Be sure to follow manufacturer's safety precautions and directions for use when using solvents.

• Ideal tape application temperature range is 70°F To 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

## For Additional Information

To request additional product information or to arrange for sales assistance, call 82-2-3771-4097. Address correspondence to : 3M Industrial Adhesive & Tapes Division, 3M Korea LTD, Hana Daetoo Securities BLDG 22<sup>nd</sup> Floor, Yoido Dong, Yongdeungpogu, Seoul, Korea, Our fax number is 82-2-786-7429

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#### (150 9002)

This Tape & Adhesives Organization product was manufactured under a 3M quality system registered to ISO 9002 standards.

### **3M**

#### **Industrial Adhesives & Tapes Division**

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