



# Technical Data Sheet

## 3M™ Scotch® Filament Tape 8809

### **Product Description**

Scotch® Filament Tape 8809 is a high-performance tape reinforced with continuous polyester filaments which gives the tape high tensile strength, high impact resistance, and high cut resistance. The 3M™ Scotchpar™ Film backing provides excellent abrasion, moisture, and scuff resistance. The adhesive is especially formulated to provide low “outgassing” properties and good adhesion to metal surfaces found in flexible flowline, riser, and umbilical “armoring” applications. The adhesive system also has a good balance of adhesion properties to fiberboard allowing it to be used in “L” clip closure applications involving Display Shipping Cases.

### **Technical Information Note**

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

### **Typical Physical Properties**

Attribute Name	Test Method	Value
Adhesive Type		Pressure-sensitive rubber resin
Backing		Polyester(PET)
Backing Color		Clear or Red
Fiber Reinforcement		Polyester Yarn
Total Tape Thickness	ASTM D3652	0.196 mm (7.7 mil)

### **Typical Performance Characteristics**

Attribute Name	Test Method	Dwell Time	Temperature	Substrate	Value
180° Peel Adhesion	ASTM D3330	72 h	23 °C (73 °F)	Stainless Steel	77 N/100mm (70 oz/in) <sup>1</sup>
Elongation at Break	ASTM D3759				19 %
Tensile Strength	ASTM D3759				472.5 N/cm (4725 N/100mm) (270 lb/in)

<sup>1</sup> 304 mm/min (12 in/min)

## **Handling/Application Information**

### **Application Techniques**

Application is most easily accomplished at room temperature. At colder temperatures, approaching 32°F (0°C), the adhesive becomes firm. Once applied, Scotch® Tape 8809 performs well throughout the normal temperature ranges typically encountered in pipe reinforcing applications.

### **Storage and Shelf Life**

Store under normal conditions of 4° to 27°C (40° to 80°F) and 40 to 50% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

### **Information**

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### **ISO Statement**

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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