

# Technical data sheet



Product: 5480

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: EINSEITIG

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## 3M 5480 PTFE PLASTIC FILM TAPE

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# 5480 "PTFE" Plastic Film Tape

## Product Data Sheet

Updated : September 2022

Supersedes : March 1996

### Product Description

A low friction film which is resistant to wear. The skived (or shaved) film is more suitable for the more conformable applications such as spirally wrapping rollers.

5480 is thinner than 5481 and is more suited to applications requiring more conformability or lighter duty applications.

### Physical Properties

Not for specification purposes

<b>Adhesive Type</b>	Silicone (pressure-sensitive)	
<b>Backing</b>	Skived film made of DuPont's PTFE (Polytetrafluorethylene) film.	
<b>Film Thickness</b> (ASTM D-3652)	50 µm	
<b>Total Thickness</b>	96 µm	
<b>Tape Colour</b>	Brown	
<b>Shelf Life</b>	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

### Performance

#### Characteristics

Not for specification purposes

<b>Adhesion to Stainless Steel</b> ASTM D-3330	2.2 N/10mm	
<b>Tensile Strength</b> ASTM D-3759	47.3 N/10mm	
<b>Elongation at Break</b> ASTM D-3759	140 %	
<b>Temperature Range</b> Maximum Minimum	204 °C -54 °C	

### Additional Product Information

No. 5480 is a skived "Teflon" Film Tape developed to extend the service life as a release surface on rubber laminating rolls on hot polyethylene extruders.

Age life of 5480 is excellent with no noticeable deterioration after normal storage of one year. Applied tape can be considered permanent if inherent limits of the backing or adhesive are not exceeded.

#### **CAUTION**

The characteristics of "Teflon" film are such that at temperatures above 204°C the film gives off small quantities of toxic fumes. Therefore, when using 3M "Teflon" Tapes above 204°C adequate ventilation must be provided.

<b>Application Techniques</b>	To prevent wrinkling or bubbling of the backing on "Teflon" film tapes when subjected to temperature above 120°C, pre-heat the surface the tape will be applied to. Pre-heat the surface to at least 65°C (preferred 80°C) to obtain the best results.	While always ensuring surface is dry, clean and with no loose surface. Firm even pressure should always be applied.
<b>Applications</b>	Easy release surface provided by wrapping rollers, plates, belts, etc., where build-up of sticky materials, ink and paints normally occur.	Chemical resistant surface provided by lining hoods, bins, chutes and wrapping pipes, cables, conduit etc.

<b>FEATURES</b>	<b>ADVANTAGES</b>	<b>BENEFITS</b>
Skived "Teflon" Film.	Elastic memory. Cross directional strength.	Higher productivity.
	Anti-stick, low friction.	Reduces maintenance and equipment replacement costs.
	Resistant to chemicals, solvents, salts.	
Silicone adhesive.	Performs at high temperatures.	High productivity.
	Removes cleanly.	Reduces clean-up.

<b>Automotive Disclaimer</b>	Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's automotive application and for conducting incoming inspections before use of the product. Failure to do so may result in injury, death, and/or harm to property. No written or verbal statement, report, data or recommendation by 3M related to automotive use of the product shall have any force or effect unless in an agreement signed by the Technical Director of 3M's Automotive Division. Customer assumes all responsibility and risk if customer chooses to use this product in an automotive electric powertrain battery or high voltage application, and 3M will
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