# Technical data sheet

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|---|---|
| Product: | 5480 |
| Manufacturer: | 3M DEUTSCHLAND GMBH |
| Product group: | KLEBEBAND |
| Article group: | EINSEITIG |
| Download: | 14.11.2026 |

## 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

| | | |
|---|---|---|
| **Adhesive Type** | Silicone (pressure-sensitive) | |
| **Backing** | Skived film made of DuPont's PTFE (Polytetrafluoreothylene) film. | |
| **Film Thickness** (ASTM D-3652) | 50 µm | |
| **Total Thickness** | 96 µm | |
| **Tape Colour** | Brown | |
| **Shelf Life** | 12 months from date of despatch by 3M when stored in the original carton at 21℃ (70℉) & 50 % Relative Humid ity | |

### Performance Characteristics

Not for specification purposes

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|---|---|---|
| **Adhesion to Stainless Steel** ASTM D-3330 | 2.2 N/10mm | |
| **Tensile Strength** ASTM D-3759 | 47.3 N/10mm | |
| **Elongation at Break** ASTM D-3759 | 140 % | |
| **Temperature Range** Maximum Minimum | 204 ℃ -54 ℃ | |

### 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.**

**Application Techniques**

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.

**Applications**

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.

| | **FEATURES** | **ADVANTAGES** | **BENEFITS** |
|---|---|---|---|
| | Skived "Teflon" Film. | Elastic memory.<br>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. |

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