# Polyethylene Tape
## 5421 • 5423

**Technical Data** **July, 2005**

**Product Description**

3M™ Polyethylene Tape 5421 and 5423 has a rubber adhesive which provides an excellent abrasion resistant surface.

**Product Construction**

| Backing | Adhesive | Liner | Color | Standard Roll Length |
|---|---|---|---|---|
| Ultra-high molecular weight polyethylene | Rubber | 60# densified kraft | Translucent | 18 yds. (16.4 m) |

**Typical Physical Properties**

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

| | | ASTM Test Method |
|---|---|---|
| **3M tape 5421** | | |
| Adhesion to Steel: | 26 oz./in width (28 N/100 mm) | D-3330 |
| Tensile Strength: | 30 lbs./in. width (526 N/100 mm) | D-3759 |
| Elongation at Break: | 275% | D-3759 |
| Backing Thickness: | 5.0 mils (0.13 mm) | D-3652 |
| Total Tape Thickness: (without liner) | 6.7 mils (0.17 mm) | D-3652 |
| Liner Thickness: | 3.5 mils (0.09 mm) | D-3652 |
| Temperature Use Range: | -30° to 225°F (-34° to 107°C) | |
| **3M tape 5423** | | |
| Adhesion to Steel: | 26 oz./in width (28 N/100 mm) | D-3330 |
| Tensile Strength: | 55 lbs./in. width (963 N/100 mm) | D-3759 |
| Elongation at Break: | 300% | D-3759 |
| Backing Thickness: | 10 mils (0.25 mm) | D-3652 |
| Total Tape Thickness: (without liner) | 11.7 mils (0.30 mm) | D-3652 |
| Liner Thickness: | 3.5 mils (0.09 mm) | D-3652 |
| Temperature Use Range: | -30° to 225°F (-34° to 107°C) | |

**Features**

- Thick caliper UHMW polyethylene tape for extended service life as a protective surface against extreme wear.
- UHMW polyethylene is a thermoplastic that has a unique combination of properties which make it ideal for many tough impact wear or sliding applications.
- Liner makes it ideal for fabricating or die-cutting into various lengths and shapes.
- Outstanding abrasion resistance so will outwear many types of PTFE and other materials in sliding applications.
- Low coefficient of friction exceeded only by the PTFE's.
- Self-lubricating so can often be used where lubrication is not possible because of contamination.
- Sound damping for high energy absorption capacity helps reduce noise levels in machinery and equipment.

# 3M™ Polyethylene Tape

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**Application Ideas**

- Conveyor flat guide rails
- Discharge chutes
- Doctor blades
- Former noses
- Protecting aluminum sheets on stretch forming presses
- Spray booth liners
- Tank and bin liners
- Drawer and cabinet slides
- Feed and grain chutes

**Storage**

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.

**Shelf Life**

To obtain best performance, use this product within 18 months from date of manufacture.

**Product Use**

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

3M

**Industrial Business**
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