3M UHMW Polyethylene Tape 5425

| Product Description | 3M [™] UHMW Polyethylene Tape 5425 is a film coated with a special acrylic adhesive that is resistant to many solvents. | | | | | |
|--------------------------------|---|--------------------------------------|------------------------|---|----------------------|--|
| Product Construction | Backing | Adhesive | Liner | Color | Standard Roll Length | |
| | Ultra-high molecular weight polyethylene | Acrylic | 55# densified kraft | Translucent | 36 yds. (32.9 m) | |
| Typical Physical Properties | Note: The following technical information and data should be considered representativ or typical only and should not be used for specification purposes. | | | | | |
| | | | | | ASTM Test Method | |
| | Adhesion to Steel: | | ./in. width (33 N/1 | D-3330 | | |
| | Tensile Strength: | | s./in. width (788 N | D-3759 | | |
| | Elongation at Break: | 100% | | D-3759 | | |
| | Backing Thickness: | 3.0 mils (0.08 mm) | | | D-3652 | |
| | Total Tape Thickness: (without liner) | 5.0 mils (0.13 mm) | | | D-3652 | |
| | Liner Thickness: | 3.2 m | ils (0.08 mm) | D-3652 | | |
| | Temperature Use Ran | Range: -30° to 225°F (-34° to 107°C) | | | | |
| Features | Acrylic adhesive is a firm high solvent and oil resistant adhesive which bonds best to high surface energy materials. UHMW polyethylene is a thermoplastic that has a unique combination of properties which make it ideal for many tough impact wear or sliding applications. Within its operational temperature range, UHMW polyethylene tape can provide the following the following structure range. | | | | | |
| | advantages: A. Outstanding abrasion resistance: | | | Will outwear many types of PTFE and othe materials in sliding applications. | | |
| | B. Low coefficient of friction: | | | Exceeded only by the PTFE's. | | |
| | C. Self-lubricating: | | Can of | Can often be used where lubrication is not possible because of contamination. | | |
| | D. Sound damping: | | | High energy absorption capacity helps reduce noise levels in machinery and equipment. | | |

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| Application Ideas | Abrasion protection for rubber fuel cells. | | |
|--|--|--|--|
| Application fueas | Gaskets exposed to many corrosive chemicals. | | |
| | | | |
| | Spiral wrap wire harness to resist hydraulic fluids. | | |
| | • Dissimilar metal separation to help prevent wear and chemical corrosion. | | |
| | • Excellent for wear surfaces where transparency is needed. | | |
| | • Guide rails and chutes requiring a more durable, solvent resistant slide surface. | | |
| 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. | | |
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| | (ISO 9001:2000) | | |

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Industrial Adhesives and Tapes Division

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