



5423 U. H. M. W. Polyethylene Tape

Product Data Sheet

Updated : March 1996
Supersedes : October 1993

Product Description

A low friction clear abrasion resistant tape which is resistant to puncturing, gouging etc., coated with an aggressive rubber resin adhesive.

Physical Properties

Not for specification purposes

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|--|--|--|
| Adhesive Type | Rubber resin. | |
| Backing | Ultra-high molecular weight polyethylene | |
| Tape Thickness (ASTM D-3652) | 280 µm | |
| Release Liner | Silicone Treated paper | |
| Tape Colour | Cream | |
| Shelf Life | 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

| | | |
|---|------------------|--|
| Adhesion to Stainless Steel ASTM D-3330 | 2.8 N/10mm | |
| Tensile Strength ASTM D-3759 | 96.3 N/10mm | |
| Elongation at Break ASTM D-3759 | 500.00 % | |
| Temperature Range Maximum Minimum | 105 °C -35 °C | |

Additional Product Information

UHMW POLYETHYLENE is a thermoplastic that has unique combination of properties which makes it ideal for tough impact wear or sliding applications.

No. 5423 is a thick clear UHMW Polyethylene tape developed to extend service life as a protective surface against extreme wear.

The liner on 5423 makes it possible to fabricate or die-cut the backing into various lengths and shapes.

Application Techniques

Best results are attained when applied to a clean, dry and non dusty surface above 0°C.

To improve adhesion ensure firm and even application pressure is applied.

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| Applications | Conveyor flat guide rails. | Glue sealing plates. | Drawer and cabinet slides. |
| | Discharge chutes. | Rotor blades. | Feed and grain chutes. |
| | Spiral wrap for round guide rails. | Spray booth liners. | Packing table tops. |
| | | Tank and bin liners. | |

| FEATURES | | ADVANTAGES | BENEFITS |
|----------------------------------|--|---|--|
| Tough UHMW Polyethylene. | | Resists abrasion and wear under load. | Saves money by reducing repairs or replacement of parts or equipment. |
| | | Resists high impacts. | |
| | | Puncture and gouge resistant . | |
| | | High energy absorption. | Reduces noise and lessens worker fatigue. |
| | | Release surface for sticky resinous or viscous materials. | Reduces clean up and maintenance costs. |
| | | Inert to most chemicals and solvents. | Protects surfaces prolonging life of parts or equipment. |
| High tack rubber resin adhesive. | | Reduces friction which promotes movement. | Increases production speeds and reduces rejects, increases equipment efficiency. |
| | | Prevents marking or scratching of product. | |
| | | Adheres instantly to most surfaces. | Easy to apply. |
| | | Good long ageing bond strength. | Remains in place under stress prolonging life of equipment. |

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

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