



5421 U. H. M. W. Polyethylene Tape

Product Data Sheet

Updated : April 1999
Supersedes : March 1996

Product Description

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

Thinner film than 5423 makes 5421 more suitable for applications where conformability is required.

Physical Properties

Not for specification purposes

Adhesive Type	Rubber resin	
Backing	Ultra-high molecular weight polyethylene	
Film Thickness (ASTM D-3652)	127 µm	
Total Thickness	170 µm	
Release Liner	Silicone treated paper	
Tape Colour	Clear	
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	52.6 N/10mm	
Elongation at Break ASTM D-3759	300.0 %	
Temperature Range Maximum Minimum	107 °C - 35 °C	

Date : April 1999
 5421 U. H. M. W.
 Polyethylene Tape

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.

The liner on 5421 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.

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.

Date : April 1999
 5421 U. H. M. W.
 Polyethylene Tape

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.
	Reduces friction which promotes movement.	Increases production speeds and reduces rejects, increases equipment efficiency.
High tack rubber resin adhesive.	Prevents marking or scratching of product.	Easy to apply.
	Adheres instantly to most surfaces.	
	Good long ageing bond strength.	

3M is a trademark of the 3M Company.

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.



Specialty Tapes & Adhesives

3M United Kingdom PLC
 3M House,
 28 Great Jackson Street,
 Manchester,
 M15 4PA

Customer Service :
 Tel [3MUKP1]0161 236 8500
 Fax 0161 237 1105

3M Ireland
 3M House, Adelphi Centre,
 Upper Georges Street,
 Dun Laoghaire, Co. Dublin,
 Ireland

Customer Service :
 Tel (01) 280 3555
 Fax (01) 280 3509

© 3M United Kingdom PLC 1996