



Specialised & Safety Products

3M 5421 Polyethylene Tape



3M 5421 Polyethylene Tape is a tough and long lasting protective tape designed for demanding applications. This tape is produced from a ultra-high molecular weight polyethylene (UHMWPE) translucent backing which is coated on one side with a rubberised adhesive. Finally, a strong and easy to remove densified Kraft paper liner is applied. This high quality grade of tape exhibits the outstanding reliability, adhesion, and high performance that this world leading manufacturer is known for.

3M 5421 Polyethylene Tape has a surface that exhibits outstanding resistance to abrasion and extreme wear. In many applications, the UHMWPE surface outlasts PTFE and other plastics known for their excellent sliding properties. It achieves this through its low coefficient of friction (which is exceeded only by PTFE's) and the fact that it is self-lubricating which allows it to be used in applications where lubricants can't be used for fear of contamination.

In addition to these performance characteristics, 3M 5421 Polyethylene Tape also offers high sound damping performance which makes it ideal for reducing noise levels in and around loud machines and equipment. Commonly used to line chutes, tank and bin liners, as well as protection for aluminium sheets on stretch forming presses. It can also be used to line flat conveyer guide rails and be applied as a barrier between dissimilar metals. Tough, strong, and highly versatile, 3M 5421 tape exhibits good adhesion to steel and performs in applications where temperatures are between -34°C and 107°C.

Technical Data:

Table with 3 columns: Property, Typical Value, Test Method. Rows include Backing, Backing Colour, Adhesive, Tape Thickness (total), Backing Thickness, Liner Thickness, Temperature Range (continuous), 180° Peel Adhesion, Tensile Strength, Elongation at Break, and Water Vapour Transmission Rate, 24h.

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Features and Benefits:

- Excellent impact and abrasion resistance
- Low water vapour transmission
- Rubber adhesive provides good initial tack for immediate bonding
- Superior wear resistance over PTFE and other materials in sliding applications
- Low coefficient of friction which is only exceeded only by PTFE
- Can be cut or slit to suit your requirements
- UHMW-PE tape can be used where lubrication is not suitable because of contamination
- Tape demonstrated no evidence of wear through after Taber Abrasion at 1000 cycles, using CS-10 wheel and 1000g load when applied to S-37 mounting sheet

Availability:

3M 5421 Polyethylene Tape is available in 0.17mm thick, 32.9m long rolls.

Various widths and shapes can be cut to suit your requirements.

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

Store under normal conditions between 16° - 27°C and 40 - 60% relative humidity in the original packaging.



Associated Gaskets stock a large range of specialty tapes and safety products as well as specialised gasket and electrical materials. For more information on these products and many more, please visit our website or call your nearest AG branch.

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