

3M™ Slick Surface Tapes

Low coefficients of friction with choice of other characteristics

3M™ Slick Surface Tapes meet many application requirements for Printing, Aerospace, Automotive, and MRO (Maintenance and Repair).

3M™ PTFE Tapes

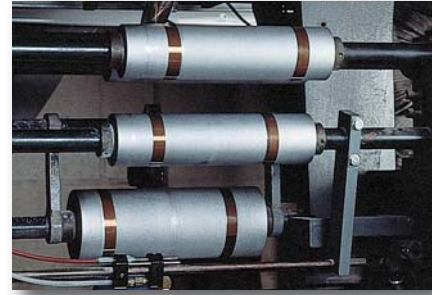
- Self-lubricating with low coefficient of friction to help improve web processing
- Resists up to 400°F (204°C) for long performance on heat sealing machines
- Anti-stick for easy cleanup of hot plastic
- Chemical-resistant barrier
- Silicone-free adhesive available

3M™ UHMW-PE Tapes

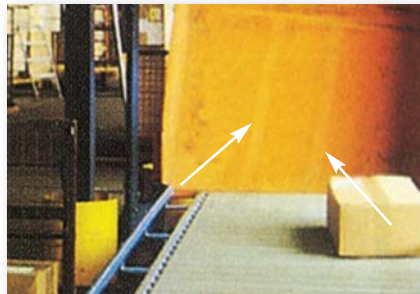
- Abrasion resistant to protect chutes, guide rails, and containers from wear
- Low coefficient of friction for “slip plane” effect between surfaces to reduce noise
- Anti-stick for ready release of many inks and adhesives



For automotive noise reduction, 3M™ UHMW-PE Tape 5425 provides a “slip plane” effect between incompatible surfaces to help reduce squeaks and rattles.



Conformable, self-lubricating 3M™ PTFE Tape 5480 helps the movement of web materials in many types of roller wrapping applications.



Corrugated boxes slide more easily down a chute lined with abrasion-resistant 3M™ UHMW-PE Tapes.



In shrink wrapping operation, 3M™ PTFE Glass Cloth Tape 5451 helps protect the bar underneath where the hot wire seals the plastic film.

Product Information:

Product/Color	Tape Structure (Backing/Adhesive)	Backing Thickness mils(mm)	Total Thickness mils(mm)	Adhesion to Steel oz./in. (N/100 mm)	Tensile Strength lbs./in. width (N/100 mm)	Elongation at Break %	Temperature Range °F (°C)	Comments
ASTM Test Method:		D-3652	D-3652	D-3330	D-3759	D-3759		
PTFE Tapes (Polytetrafluoroethylene)								
Glass Cloth								
5151/Lt.Brown	PTFE GC/Silicone	3.0 (0.08)	4.5 (0.11)	30 (33)	100 (1760)	5	-100 to 400°F (-73 to 204°C)	General purpose.
5153/Lt.Brown	PTFE GC/Silicone	5.3 (0.13)	6.8 (0.17)	35 (38)	150 (2600)	5	-100 to 400°F (-73 to 204°C)	General purpose.
5451/Brown	PTFE GC/Silicone	3.2 (0.08)	5.6 (0.14)	28 (30.6)	100 (1760)	5	-100 to 400°F (-73 to 204°C)	Heat seal tape.
5453/Brown	PTFE GC/Silicone	6.0 (0.15)	8.2 (0.21)	55 (56)	175 (3065)	5	-100 to 400°F (-73 to 204°C)	Heat seal tape.
Skived Film								
5180/Gray	PTFE/Silicone	2.0 (0.05)	3.5 (0.09)	25 (28)	30 (525)	100	-65 to 400°F (-54 to 204°C)	General purpose.
5181/Gray	PTFE/Silicone	5.0 (0.13)	6.5 (0.17)	35 (39)	75 (1300)	100	-65 to 400°F (-54 to 204°C)	General purpose.
5480/Gray	PTFE/Silicone	2.0 (0.05)	3.7 (0.09)	20 (22)	27 (473)	140	-65 to 400°F (-54 to 204°C)	Roller wrapping tape.
5481/Gray	PTFE/Silicone	5.0 (0.13)	6.8 (0.17)	32 (35)	49 (858)	335	-65 to 400°F (-54 to 204°C)	Heavy-duty roller wrapping tape.
Extruded Film								
5490/Gray	PTFE/Silicone	2.0 (0.05)	3.7 (0.09)	27 (29)	22 (385)	150	-65 to 400°F (-54 to 204°C)	Lay-flat backing.
5491/Gray	PTFE/Silicone	5.0 (0.13)	6.7 (0.17)	35 (38)	40 (700)	200	-65 to 400°F (-54 to 204°C)	Lay-flat backing.
5498/Brown	PTFE/Rubber	2.0 (0.05)	4.0 (0.10)	48 (53)	19 (332)	105	40 to 300°F (4 to 149°C)	Silicone-free adhesive.
UHMW-PE Tapes (Ultra High Molecular Weight — Polyethylene)								
Film								
5421/Transparent	UHMW-PE/Rubber	5.0 (0.13)	6.7 (0.17)	26 (28)	30 (526)	275	-30 to 225°F (-34 to 107°C)	General purpose tape.
5423/Translucent	UHMW-PE/Rubber	10.0 (0.25)	11.7 (0.30)	26 (28)	55 (963)	300	-30 to 225°F (-34 to 107°C)	Excellent abrasion resistance.
5425/Transparent	UHMW-PE/Acrylic	3.0 (0.08)	4.5 (0.11)	30 (33)	45 (788)	100	-30 to 225°F (-34 to 107°C)	Solvent resistant adhesive.
5430/Transparent	UHMW-PE/Acrylic	5.0 (0.13)	7.0 (0.18)	75 (82)	40 (696)	175	-30 to 225°F (-34 to 107°C)	High tack adhesive.
9324/Black	UHMW-PE/Acrylic	5.0 (0.13)	6.5 (0.17)	75 (82)	40 (696)	175	-30 to 225°F (-34 to 107°C)	Black version 5430 tape.
9325/Transparent	UHMW-PE/Acrylic	3.0 (0.08)	5.0 (0.13)	50 (55)	40 (696)	175	-30 to 225°F (-34 to 107°C)	Thin version 5430 tape.

Note: All UHMW-PE tapes come on a paper liner. Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.