

3M™ Slick Surface Tapes

Key Customer Markets

- ◆ Aerospace
- ◆ Automotive
- ◆ Printing
- ◆ MRO

PTFE Tapes

Low Coefficient of Friction

Self-lubricating nature of PTFE film tape can help improve the processability of many web materials.

Excellent Heat Resistance

High temperature PTFE glass cloth tape provides long lasting performance on many heat sealing machines.

Anti-Stick/Release

Release nature of PTFE film tape facilitates clean up of hot plastic extrusion coating by not allowing plastic build-up on rollers.

Chemical Resistance

PTFE film tape provides chemical barrier for harsh design environments.

Conformability

PTFE film tapes hug rollers for easy application and effective service.

UHMW-PE Tapes

Abrasion Resistance

UHMW-PE tapes help protect plastic and metal chutes, guide rails and containers from wear.

Low Coefficient of Friction

This feature, combined with abrasion resistance, can offer an effective solution for many noise and vibration problems.

Anti-Stick/Release

UHMW-PE tapes provide easy clean up surface for many coating or bonding applications involving various inks, glues or sealants.

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)	5.3 (0.13)	28 (30.6)	100 (1760)	5	-100 to 400°F (-73 to 204°C)	Heat seal tape.
5453/Brown	PTFE GC/Silicone	6.0 (0.157)	8.3 (0.21)	55 (56)	175 (3065)	5	-100 to 400°F (-73 to 204°C)	Heat seal tape.

Skived Film

5180	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	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)	3.8 (0.09)	20 (22)	30 (525)	140	-65 to 400°F (-54 to 204°C)	Roller wrapping tape.
5481/Gray	PTFE/Silicone	5.0 (0.13)	6.8 (.172)	32 (35)	75 (1300)	335	-65 to 400°F (-54 to 204°C)	Heavy duty roller wrapping tape.

Extruded Film

5490/Gray	PTFE/Silicone	2.0 (0.05)	3.5 (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)	6.5 (0.17)	35 (38)	40 (700)	200	-65 to 400°F (-54 to 204°C)	Lay flat backing.
5498/Beige	PTFE/Rubber	2.2 (0.06)	4.1 (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/Acrylic	5.0 (0.13)	6.7 (0.17)	26 (28)	30 (526)	300	-30 to 225°F (-34 to 107°C)	General purpose tape.
5423/Translucent	UHMW-PE/Rubber	10.0 (0.76)	11.7 (0.28)	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)	6.5 (0.17)	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.

TYPICAL PERFORMANCE COMPARISON CHART

	Good	Better	Best
Heat Resistance	UHMW-PE Tape	PTFE Film Tape	PTFE Glass Cloth Tape
Wear Life	PTFE Film Tape	PTFE Glass Cloth Tape	UHMW-PE Tape
Conformability	PTFE Glass Cloth Tape	UHMW-PE Tape	PTFE Film Tape
Low Friction Coefficient	UHMW-PE Tape	PTFE Glass Cloth Tape	PTFE Film Tape
Anti-Stick/Solvent Resistance	PTFE Glass Cloth Tape	UHMW-PE Tape	PTFE Film Tape

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.