

High Temperature Teflon Ptfе Tape Width 13Mm 15Mm 19Mm 20Mm 30Mm

Item Number: FZ45



Introduction

Engineered for exceptional thermal stability and superior chemical resistance, this high temperature Teflon PTFE tape delivers dependable non-stick surface release, mechanical strength, and electrical insulation across heat sealing, packaging, composite molding, battery manufacturing, and demanding industrial processing environments.

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Application	Description	Key Benefit
Heat Sealing & Packaging	Applied directly over heating elements, jaw sealers, impulse sealers, and L-bar sealers in vacuum packaging and plastic bag manufacturing.	Prevents molten polymer film from sticking to heating elements, ensuring airtight seals and clean packaging finishes.
Textile Sizing & Drying Cylinders	Wraps guide rollers, drying cans, and sizing machine cylinders in textile, dyeing, and yarn processing facilities.	Eliminates sizing agent and starch buildup, reducing roll maintenance and ensuring smooth, snag-free fabric transit.
Thermoplastic Composite Demolding	Applied to tooling platens, autoclave fixtures, and press molds during composite curing, compression molding, and thermoforming.	Enables rapid, defect-free part release without liquid release agents, protecting composite surface integrity.
Battery Cell & Laboratory R&D	Utilized as an insulating barrier, electrode tab shield, and thermal interface layer during battery assembly and heated pressing workflows.	Delivers high-temperature electrical isolation, zero chemical reactivity with electrolytes, and thermal transfer stability.
Chemical & Pharmaceutical Processing	Protects flanges, gaskets, conveyor chutes, and hopper walls exposed to caustic vapors, aggressive acids, and reactive solvents.	Prevents equipment corrosion, eliminates chemical erosion, and maintains clean, non-contaminating product flow paths.
Printing & Paper Converting	Covers guide rollers, laminating rolls, and adhesive application zones in continuous web printing and paper-making operations.	Stops wet ink, hot-melt glues, and coatings from offsetting onto rollers, preventing web breaks and misprints.
Abrasive Wheel & Grinding Fabrication	Applied as a high-strength backing and release layer during the slicing, pressing, and curing of abrasive grinding wheels.	Resists high compressive pressing forces and thermal baking cycles without dimensional distortion or tearing.
Wire, Cable & Electronic Insulation	Serves as high-temperature phase insulation, wire harness wrapping, and slot liner protection in motors, transformers, and electronics.	Provides reliable dielectric barrier properties, arc suppression, and non-flammable thermal insulation under electrical loads.

Specification Parameter	PTFE Fiberglass Reinforced Variant (FZ45-FG)	Pure PTFE Film Variant (FZ45-FM)
Item Series Identifier	FZ45-FG	FZ45-FM
Base Substrate Material	Premium Imported Woven Glass Fiber Fabric	100% Pure Skived PTFE Fluoropolymer Film
Surface Coating	PTFE (Polytetrafluoroethylene) Dispersion Resin	Untreated / Etched Functional Fluoropolymer
Adhesive Type	High-Temperature Cross-Linked Silicone	High-Temperature Cross-Linked Silicone
Substrate / Total Thickness Range	0.13 mm to 0.40 mm (Standard: 0.13 mm, 0.18 mm)	0.08 mm to 0.50 mm (Standard: 0.13 mm, 0.18 mm)
Standard Precision Slit Widths	13 mm, 15 mm, 19 mm, 20 mm, 30 mm, 50 mm, 90 mm	13 mm, 15 mm, 19 mm, 20 mm, 30 mm, 50 mm, 90 mm
Maximum Available Roll Width	1200 mm (With Release Liner) / 600 mm (Linerless)	1200 mm (With Release Liner) / 600 mm (Linerless)
Standard Color Options	Brown (Standard), Brown-Yellow, Coffee, Dark Brown, Beige, Black	White, Gray, Pure Black
Release Liner Options	Available with Release Paper Liner or Self-Wound	Available with Release Paper Liner or Self-Wound

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Chemical Resistance	Acids, Alkalis, Organic Solvents, Hydrocarbons	Universal (Immune to nearly all solvents and reagents)
Coefficient of Friction	0.05 to 0.10 (Extremely Low)	0.04 to 0.08 (Ultra-Low)
Tensile Strength (Longitudinal)	> 900 N / 100 mm (High Tensile Stability)	> 250 N / 100 mm (High Elongation / Conformability)
Dielectric Strength	5.0 to 8.0 kV	8.0 to 12.0 kV
Reusability & Replacement	Reusable multi-cycle release, clean peel removal	Smooth wrap, zero residue removal on solid surfaces