DuraStick® Industrial Tapes (250 Series)

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Product Description

The DuraStick® Industrial Tapes utilize DuraFab® Industrial Fabrics but have the added benefit of an adhesive on one side. These tapes are manufactured from woven fiberglass substrates, possess an optimal PTFE (Fluon®) content, leave a minimal fabric impression, and have a proprietary silicone or acrylic adhesive system. Because of the glass reinforcement, this series of tape is resistant to "cold-flow", a characteristic inherent in pure unsupported PTFE films, these tapes are an excellent choice when cut-through, load carrying, or harsh industrial environments require the unique surface characteristics of PTFE. As AFC's most popular and versatile tape series, DuraStick® Industrial Tapes provide the highest value to customers by offering an excellent balance of heat transfer, release, and flexibility.

DuraStick® PTFE Coated Tape Characteristics

DuraStick® PTFE Coated Tapes are engineered to retain the distinctive properties of PTFE; however, by adding a glass fabric to the matrix, AFC is able to obtain the added benefits of dimensional stability, durability, excellent tensile strength, and extremely low elongation (<1%). The addition of an adhesive on one side eliminates the need for mechanical fastening. Tapes with silicone adhesive operate over a wide temperature range, -100°F to 500°F (-73°C to 260°C), while tapes with acrylic adhesive operate over a narrower range of temperatures, -40°F to 350°F (-40°C to 177°C).

Typical Applications

Packaging:
- Poly bag manufacturing
- Impulse/L-Bar sealing
- Form fill and seal
- Over wrapping (Tray packing)
- Side and End sealing
- Blister tray covers
- Vacuum pack machines

Food Products:
- Work surface covering
- Tray liners

Printing and Textiles:
- Non-stick roll coverings

Building Products:
- Vinyl window manufacturing

Chemical Processing:
- Tank seals and contaminant barriers
- Gaskets, membranes, seals & diaphragms
- Corrosion resistant chute, drum, and hopper liners
- Lining of spray booths
- Guide rails

Aerospace, Communications & Military:
- Composite mold release/bonding
- Vacuum bagging

Pulp and Paper:
- Non-stick roll coverings

Electronics:
- Slot-stick and commutator insulation
- Slot liners, spacers, field and armature winding
- Wire and cable insulation and protection

Other Applications:
- Manufacture of metalized balloons
- Bearing pads/surfaces
- Work surface covering
- High temperature masking

Styles Available

Product ID	Adhesive System	Nominal Thickness (Substrate)	Nominal Thickness (Adhesive)	Adhesion (oz./in. of width)	Tensile Strength (lbs/sq in)	Maximum Operating Temperature	Full Width (in.)	Full Widths (inches)
250-03A	Acrylic	0.003"	0.0020"	45	56	350°F (177°C)	39.5	10, 18, 36
250-05A	Acrylic	0.005"	0.0020"	50	100	350°F (177°C)	39.5	18, 36
250-06A	Acrylic	0.006"	0.0020"	50	100	350°F (177°C)	39.5	18, 36
250-10A	Acrylic	0.010"	0.0025"	50	200	350°F (177°C)	39.5	18, 36
250-14A	Acrylic	0.014"	0.0025"	50	320	350°F (177°C)	39.5	18, 36
250-03S	Silicone	0.003"	0.0020"	40	56	500°F (260°C)	39.5	10, 18, 36
250-05S	Silicone	0.005"	0.0025"	45	100	500°F (260°C)	39.5	18, 36
250-06S	Silicone	0.006"	0.0025"	45	100	500°F (260°C)	39.5	18, 36
250-07S	Silicone	0.007"	0.0025"	45	100	500°F (260°C)	39.5	18, 36
250-10S	Silicone	0.010"	0.0025"	45	200	500°F (260°C)	39.5	18, 36
250-10S	Silicone	0.014"	0.0025"	45	320	500°F (260°C)	39.5	18, 36

Please note: Additional thicknesses and styles available upon special order.

Disclaimer: All figures provided in the above table are based upon ASTM D 4969-97, the Standard Specification for Polytetrafluoroethylene (PTFE) Coated Glass Fabric. The above tensile values are based upon the ASTM D902 test method and are not actual values of AFC's materials. The above tensile values are 80% of the figures provided in Table 6 of specification D579. AFC states that its actual tensile will be greater than the above material specification and that actual tensile values will be provided upon request. AFC measures adhesion according to ASTM D 3654/D 3654M, Standard Test Methods for Shear Adhesion of Pressure-Sensitive Tapes, and actual adhesion values will vary. Edge Tear values are based upon ASTM D1424 (Elmendorf Tearing Test) and are average values that can vary.