

UNSINTERED PTFE TAPES

STANDARD

PLASTOLON™ unsintered PTFE tapes (a.k.a “extruded PTFE tapes”) have been a synonym of quality for over 30 years. ***With the best color and properties uniformity in the industry***, the Plastolon™ PTFE tapes continued to evolve and are now part of the Altamira Material Solutions family.

Natural, white or other colors, UV laser-markable or conductive, Altamira Material Solutions has the right PTFE tape solution for your application.

Standard unsintered PTFE tapes (or “standard extruded tapes”) provide excellent chemical and mechanical properties making them a great choice for applications requiring high operating temperature and chemical resistance.

Once sintered, coefficient of friction is similar to regular skived PTFE tapes and films. Its electrical properties also make this series suitable for using in wire and cable and other electrical insulation applications.

FEATURES

- Standard (Natural, White, Red, Blue, Yellow, Green, Black) and Special colors (Brown, Orange, Violet, Gray); custom color shades can be developed upon request.
- Thickness from 0.0020” (0.051mm)
- Widths from 5/32 (4mm) to 7” (178mm)
 - Check our Widths and Packages flyer for details on winding types
- Physical and mechanical properties meet ASTM D6585 and AS22759
- High temperature of operation
- Continuous long lengths from 3,000ft (914m) up to 13,500ft (4115m)
- Excellent chemical resistance and mechanical performance
- All colors are RoHS, REACH and California Prop 65 compliant

Altamira’s colored unsintered tape

Competitors’ colored unsintered tape

APPLICATIONS

- Non-critical wire and cable insulation and jacketing
- Binder tape for cable bundles




































TYPICAL PROPERTIES

Unsintered PTFE Tapes - Standard					
Thickness	0.0020" (0.051mm)	0.0025" (0.064mm)	0.0030" (0.076mm)	0.0035" (0.089mm)	0.0040" (0.102mm)
Properties					
Density (SPG)	1.6 g/cm ³				
Tensile Strength ¹ (Machine Direction)	2,600 psi (17.9 MPa)	2,200 psi (15.2 MPa)	2,000 psi (13.8 MPa)	2,000 psi (13.8 MPa)	1,900 psi (13.1 MPa)
Elongation at Break ¹ (Machine Direction)	75%	75%	100%	100%	100%
Dielectric Strength (breakdown voltage)	1,000 V/mil (39.4 kV/mm)				

The values above are for reference only and should not be used as specification

¹ Different colors and base resins may lead to different values

COLORS

		DARKEST	LIGHTEST	ACTUAL	TAPE COLOR BEFORE SINTERING
Standard Colors Darkest and Lightest shades according MIL-STD-104 (Class 1) and EIA-359-A.	BLACK		 --- 2.3/0.5	 ECLIPSE BLACK	
	RED	 10RP 3/10	 5.5R 5/27	 VALENCIA RED	
	BLUE	 7.5B 3/8	 5PB 5.2/25	 MARINER BLUE	
	YELLOW	 1.25Y 7.5/8	 8.75Y 9.5/21	 STARSHIP YELLOW	
	GREEN	 5GY 4/8	 5G 6/31	 EUCALYPTUS GREEN	
Special Colors Darkest and Lightest shades according MIL-STD-104 (Class 1) and EIA-359-A.	ORANGE	 10R 5/10	 5YR 5/21	 SIENNA ORANGE	
	BROWN	 7.5R 2.5/4.5	 7.5YR 4.5/8	 IRONSTONE BROWN	
	VIOLET	 10PB 3/5.5	 5P 5.5/31	 STUDIO VIOLET	
	GRAY	 --- 4.5/0	 --- 6/0.5	 ALUMINUM GRAY	

Warning: Properties shown on this document are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations, consult Altamira Material Solutions. While the utmost care has been used in compiling this document, we assume no responsibility for errors. This edition cancels all previous issues. Subject to change without notice.