

UV Laser Markable

UNSINTERED TAPES

Technetics PTFE & Polymer Solutions is a leader in the development, production and delivery of standard and custom PTFE tape & film solutions. Whether you are looking for a standard or custom product, we offer extensive knowledge of PTFE compounds, along with proprietary techniques for compounding and particle modification, to create a solution that meets your exact physical, thermal and practical requirements.



HIGH-PERFORMANCE SOLUTIONS

- Ideal for critical applications where high temperature and chemical resistance are required
- Meet strict requirements for marking contrast before and after thermal ageing
- Our manufacturing process allow for the creation of the most homogeneous PTFE blends in the industry
- Evenly distributed pigments and consistency in color tapes no matter what fillers or additives the application might require
- Raw PTFE resin used is always of the highest quality meeting ASTM D4895 requirements

APPLICATIONS

Wire and Cable

- Commercial and military aircraft: hook-up wires, airframe, power feeder, in-flight entertainment, data cables
- Thermocouple cables
- Hook-up wire for high reliability electrical and electronic equipment

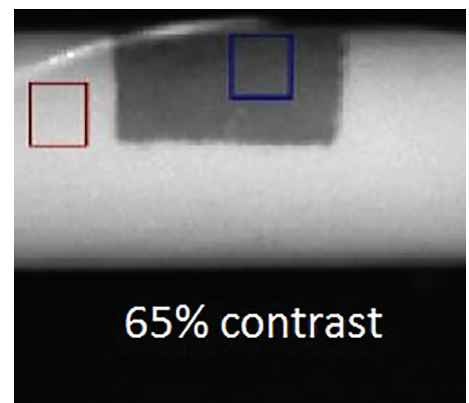
MEETING CRITICAL REQUIREMENTS

- High temperature operation
- Excellent chemical resistance
- AS22759, AS6070, NEMA WC 55021, WC 27500, NEMA HP3 (formerly MIL-W-16878), EN2267, Boeing and Airbus requirements
- Fire resistance
- RoHS/REACH compliant

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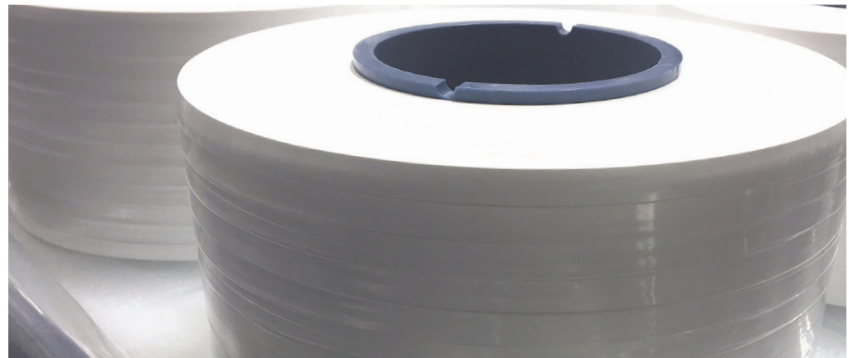


Competitor



CONFIGURATIONS

- White (pigmented) or colors (9 standard colors)
- Custom colors can be developed
- 1,500 yds (1,372m) (min) splice-free
- Thickness from .0015" (0.038mm) to .0250" (0.635mm)
- Custom slit to widths from 5/32" (4mm) up to 7-7/8" (200mm)
- Enhanced contrast option when minimum contrast after thermal ageing is required
- Packaging/winding
 - 3" (76mm) ID plastic or cardboard cores
 - Traverse/level: up to 3/4" (19.1mm) wide
 - Step-pack/index: up to 5/8" (15.9mm) wide
 - Pancake/flat pads: from 1/4" (6.4mm) wide and above



TYPICAL PROPERTIES OF UNSINTERED LASER-MARKABLE PTFE TAPES

Property / Thickness		0.0020" (0.051mm)	0.0025" (0.064mm)	0.0030" (0.076mm)	0.0035" (0.089mm)	0.0040" (0.102mm)
Density (typical)		1.6 g/cm ³				
Initial UV Laser-Marking contrast % (typical average)		60%				
Tensile Strength (Machine Direction)	Typical	3,500 psi (24.1 MPa)	3,300 psi (22.8 MPa)	2,800 psi (19.3 MPa)	2,400 psi (16.5 Mpa)	2,400 psi (16.5 Mpa)
	AS22759 (min)	1,300 psi (9.0 MPa)				
Elongation (Machine Direction)	Typical	150%	150%	200%	200%	250%
	AS22759 (min)	50%				
Dielectric Strength (breakdown voltage)	Typical	2,000 V/mil (78.7 kV/mm)				
	AS22759 (min)	700 V/mil (27.6 kV/mm)				