Unsintered Full-Density PTFE Tape

FD-PTFE unsintered full-density PTFE tape strip is an unsintered pure PTFE tape strip designed for high-frequency, high-power, low-loss coaxial cables, aviation wires, high-temperature resistant wires, etc., with the characteristics of low dielectric constant, high dielectric strength, compressive resistance, rapid elastic recovery and high tensile strength. FD-PTFE unsintered PTFE tape strip in addition to the well-known electrical, thermal and chemical excellent characteristics, the company mainly improves the attenuation, rated loss, strength, thermal stability, dielectric strength, dimensional accuracy of materials, etc., making it more suitable for high-frequency high-power low-loss coaxial cables, aviation wires, high-temperature resistant wires and other high-performance cable applications.

Product Features

- Low grinding coefficient, high flexibility
- High temperature resistance, abrasion resistance
- Resists chemical corrosion
- Low dielectric constant, high dielectric strength
- Low signal attenuation
- Low heat shrinkage （< 5%）
- Excellent dimensional consistency

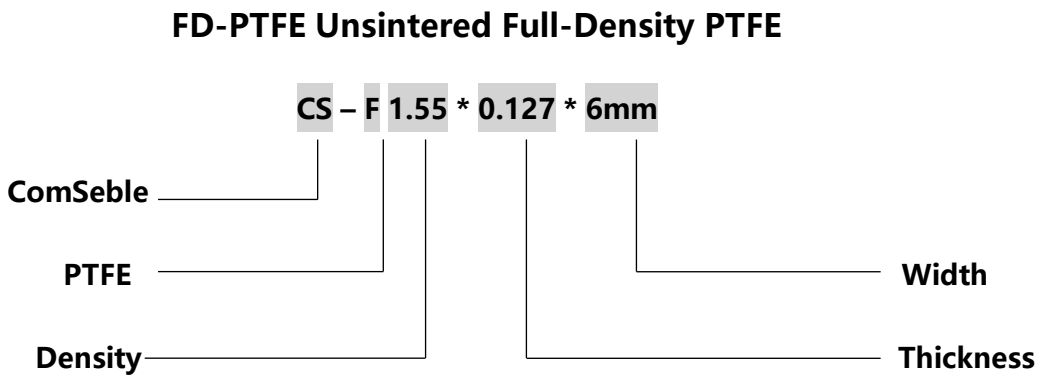
Application

- Aerospace
- Radar electronics
- Communication Engineering
- Industrial automation
- Electrical instrumentation
- Medical equipment

Common Specifications of Product

Product specifications	Thickness/unit	Specification	Tolerance
FD-PTFE	mm	0.051	±0.005
		0.076	±0.005
		0.102	±0.005
		0.127	±0.005
		0.152	±0.007
		0.203	±0.007
		0.254	±0.007
Width (disc)	mm	≥10	±0.1
Width (tube)	mm	≥4	±0.1
Length	m	> 200	-
Remarks: The table is the recommended specifications: other specifications can be produced in consultation with customers; The number of meters can be produced according to the tape thickness and customer agreement.			

Part Number Description



Notes

● It is recommended that the product be stored in an environment of 15°C to 28°C and a relative humidity of 40%-65%, and use it best within 12 months of the date of manufacture.

Product Performance

Performance	Project	Test method	Unit	Test Value
Physical properties	Tensile strength	GB/T1040.3-2006	MPa	≥10
	Elongation at break		%	≥100
	Density	GB/T6434-2009	g/cm3	1.55±0.05
	Heat shrinkage	125℃/6h	%	≤5
	Dielectric strength	GB/T1408.1-2006	kv/mm	≥80
Temperature resistance	Maximum operating temperature	-	℃	≤260
	Minimum operating temperature	-	℃	-150