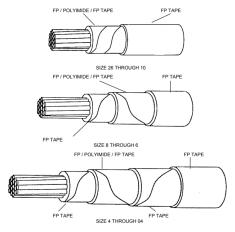


SKIVED PTFE Tape

SKIVED PTFE Tape is a PTFE tape made by cutting cylindrical PTFE blanks at a specified thickness. It is mainly used for aviation installation cables, such as FP(SKIVED) FP- (PTFE) in SAE AS22759/80~92.





FP – FLUOROCARBON POLYMER MODIFIED POLYTETRAFLUOROETHYLENE (PTFE)
CONDUCTOR – STRANDED NICKEL COATED COPPER CONDUCTOR

TABLE 2 - WIRE INSULATION MATERIAL 1/

TAPE CODE	THICKNESS (NOM)	MATERIAL		
1	0.002	0.0005 (FP)/0.0010 (POLYIMIDE)/0.0005 (FP)		
2	0.001	FP (SKIVED)		
3	0.002	FP (SKIVED)		
4	0.002	FP (UNSINTERED)		
5	0.0025	FP (UNSINTERED)		
6	0.003	FP (UNSINTERED)		

1/ PHYSICAL PROPERTIES OF THE FP TAPES (SKIVED AND UNSINTERED) SHALL BE IN ACCORDANCE WITH AS22759 REQUIREMENTS.

Features

- Big temperature range (-200°C~+260°C)
- Corrosion and weather resistance (with excellent chemical inertness)
- Strength (high strength-to-weight ratio)
- Lowest coefficient of friction among solids, non-adhesion
- Biological adaptability
- Low dielectric constant
- Insulation performance: It has excellent insulation performance





Applications

- Aerospace cables
- 5G high-frequency copper clad laminate industry
- LCD screen
- Liner seals and lubricating materials working in various media
- Electrical insulators used at various frequencies

Product Family

PRODUCT FAMILY	TENSILE STRENGTH (MPA)	BROKEN STRETCHING STRAIN (%)	
CS-SKFM-1 (DIRECTIONAL)	≥50	≥60	
CS-SKFM-2 (SEMI-DIRECTIONAL)	≥30	≥80	
CS-SKFM-3 (NON-DIRECTIONAL)	≥20	≥100	

Diversity

- PTFE tape can be added with a variety of modified materials to meet different use requirements.
- The contrast can be adjusted according to customer requirements.

Precautions

- Store in a cool, dry warehouse in the form of packaging, with a temperature of 25±10°C and a humidity of ≤75%;
- It is recommended to store at room temperature 25°C for 4h before use.

Specification

PRODUCT FAMILY	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	
CS-SKFM-1		5.0~1500		
CS-SKFM-2	0.01~1.0		Designed by customer's requirement	
CS-SKFM-3				



Performance

Performance	Project	Test Method	Unit	Value
	Tensile strength	D638	MPa	14.4~35
	Elongation		%	200~400
	Specific gravity	D792	-	2.13~2.2
	Hardness (Shore)	D2240	-	D50~55
	Flexural modulus of elasticity	D790	GPa	0.50~0.55
	Tensile modulus	D638	GPa	0.45~0.55
Physical	Compressive strength	D695	MPa	11.8
Properties	Coefficient of dynamic friction	0.93MPa{7kgf/cm³} 3m/min	-	0.10
	Impact strength	D256	J/M	160
	Coefficient of friction (static)	-	-	0.065
	Coefficient of friction (dynamic)	-	-	0.1
	Water absorption rate (24 hours)	D570	%	0.01
	Oxygen index	D2863	-	> 95
	3.2 mm thick flammability	UL 94	-	V-0
	Maximum operating temperature	-	°C	≤260
	Minimum operating temperature	-	°C	≥-200
	Melting point	-	°C	327
	Thermal conductivity	C177	W/m·K	0.25
	specific heat	DIN 52612	J/(°C⋅g)	1.05
	Temperature heat deflection ratio	D648	°C	55
Thermal	1.81MPa{18.5kgf/cm²}			101
Performance	Temperature heat deflection ratio 0.45MPa{4.6kgf/cm²}			121
		25~100°C MD		11
		25~100℃ CD		10
		25~150℃ MD	_	12
	Coefficient of thermal expansion	25~150℃ CD	X 10 ⁻⁵ /℃	11
		25~200℃ MD		14
		25~200℃ CD		12
		25~250℃ MD		17
		25~250℃ CD		16
Electrical Performance	DK 60HZ {relative DK}	D150	pF/m	< 18.6 { < 2.1}
	Factor 60HZ		-	0.0002
	Break-through strength (short-term)	D149	MV/m	19
	Arc resistance	D495	sec	> 300
	Volume resistivity	D257	Ω·CM	> 10 ¹⁸