



900um FURCATION TUBES

Description

PVDF (polyvinylidene fluoride) 900um tube is specially designed for bare fiber protection. PVDF exceptional properties include: low smoke generation and flame spread, mechanical strength and toughness, high abrasion resistance, thermal stability and purity, and resistance to most chemicals and solvents. PVDF is resistant to UV light and radiation and shows low permeability to most gases and liquids. It has high dielectric strength and high dissipation factor limits at high frequencies.



Features

- 900um outside diameter
- 12 colors available
- Up to 110°C
- PVDF UL material
- Low shrink rate

Applications

- Fan-out cords
- Couplers
- WDMs
- Bare fiber protection

Specifications

Material	PVDF (Polyvinylidene Fluoride)
Tensile Strength	18 Mpa
Elongation	50-300%
Specific Gravity	1.78g/cm ³
Dielectric Constant	8.5 at 10MHz
Max. Temperature	110°C
Min. Operating Temperature	0°C
Outer Diameter	0.89mm
Inner Diameter	0.38mm
Colors Available	White, Black, Red, Blue, Orange, Yellow, Brown, Green, Grey, Pink, Violet, Aqua,

Material Specifications

PVdF = Polyvinylidene Fluorid

Physical Properties	Value	Conditions
Specific gravity	1.78	D792
Water absorption (%)	<0.04	D570 / 24 hrs 1/3" t
Mold shrinkage (cm/cm)	0.03	
Contact angle (degree)	100°	Angle to level

Thermal Properties

Thermal conductivity (Cal/sec/cm ²)	4.5×10 ⁴	C177
Coefficient of linear thermal expansion (°C/cm)	7×10 ⁵	D696 / 23-60°C
Melting point (°C)	178	
Melt viscosity (poise)	1.8×10 ⁴	220°C
Maximum temp. for continuous uses	150/302	

Mechanical Properties

Tensile strength (kgf/cm ²)	549	D638 / 23°C
Elongation(%)	80	D638 / 23°C
Compression strength (kgf/cm ²)	815	D695 / 1% deformation, 25°C
Tensile modulus (dgf/cm ²)	20000	D638 / 23°C
Flexural modulus (kgf/cm ²)	22500	D790 / 23°C
Impact strength (ft-lb/in)	20.80	D256 / 23°C, Izod
Hardness (shore)	D79	Durometer
Deformation under load (%)	1.5	D621 / 100°C, 70kgf/cm ² , 24hrs
	0.0	D621 / 25°C, 140kgf/cm ² , 24hrs
Static friction coefficient	0.4	Coated-steel surface

Electrical Properties

Dielectric constant	7.2	D150 / 10 ⁶ Hz
	8.5	D150 / 10 ⁶ Hz
Dielectric dissipation factor	1.3×10 ³	D150 / 10 ⁶ Hz
	9×10 ²	D150 / 10 ⁶ Hz
Dielectric breakdown strength (V/mil)	260	D149 / short time, 1/8 in
Volume resistivity (ohm-cm)	1.5×10 ¹⁴	D257
Chemical resistance	Excellent	
Weatherability	Excellent	
Combustibility (%)	44	D2863 / Oxygen, concentration

Ordering Information

Part Number: **FCT- P 680.1**

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1 Color Code	680.1=Brown 680.2=Red 680.3=Orange 680.4=Yellow 680.5=Green 680.6=Blue 680.7=Violet 680.8=Grey 680.9=White 681.0=Black 681.1=Pink 681.2=Aqua
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Products manufactured in
ISO 9001 certified facilities



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