



D-Marking135F THIN WALL TUBING

Fluid resistant heat shrinkable polyolefin identification tubing

Applications

Special designed to meet the requirements of high performance identification of wire and cables where exposure to organic fluids, especially oils, is required. It is made of superior fluid resistant flame retardant polyolefin with excellent electrical, physical, chemical and printing properties. It can be easily printed by marker printers with permanent identification widely used in aerospace, military, railway, construction industry, etc.

Features

Shrink ratio 3:1
Fluids resistant.
Meet the requirements of aerospace and railway use.
Excellent printing property, permanent identification to meet SAE AS81531.
Excellent electrical, physical, chemical and printing properties.
RoHS and REACH compliant.
Operating temperature range:
Operating temperature: -55°C~ 135°C
Minimum shrink temperature: 80°C
Minimum fully recovery temperature: 120°C

Approvals:

SAE AMS-DTL-23053/5
UL224 125°C 600V
SAE AS 81531, MIL-STD-202

Technical Data

Property	Requirement	Test method	Typical Data
Longitudinal shrinkage	≤10%	ASTM D 2671	≤5%
Tensile strength	10.4 MPa min.	ASTM D 638	≥13MPa
Elongation at break	200% min.	ASTM D 638	≥400%
Elongation after ageing (175°C, 168hrs)	100% min.	ASTM D 638	≥300%
Heat shock	No crack	ASTM D 2671	No crack
Low-temperature flexibility(-55°C, 4hrs)	No crack	ASTM D 2671	No crack
Dielectric voltage withstand	2500V,60sec, no breakdown	ASTM D 2671	No breakdown
Dielectric strength	19.7 KV/mm min.	ASTM D 2671	≥25 KV/mm
Volume resistivity	10 ¹⁴ Ω·cm min.	ASTM D 876	≥10 ¹⁴ Ω·cm
Corrosion	No corrosion	ASTM D 2671	No corrosion
Flammability	Self-extinguishing within 1 minute	AMS-DTL-23053	pass
Printing performance	50 rubs, legible 30 strokes, legible	SAE AS81531 MIL-STD-202	pass
Fluid resistance(23°C, 24hrs)	Printing legible	SAE AS81531	pass

Dimensions

Size		Size As Supplied (mm)	Size After Re-recovery (mm)	Recommended Use range (mm)	Ladder Type pcs/pack	Continue length m/spool
Inch	mm	Inside Diameter Min.	Inside Diameter Max.			
3/32	Φ2.4	2.4	0.8	0.9-2.0	250	100
1/8	Φ3.2	3.2	1.1	1.1-2.7	250	100
3/16	Φ4.8	4.8	1.6	1.8-4.1	250	100
1/4	Φ6.4	6.4	2.1	2.3-5.5	250	100
3/8	Φ9.5	9.5	3.2	3.5-8.1	250	100
1/2	Φ12.7	12.7	4.2	4.6-10.8	250	100
3/4	Φ19.1	19.1	6.3	7.0-16.3	250	100
1	Φ25.4	25.4	8.5	9.3-21.6	250	100
1 1/2	Φ38.1	38.1	19.1	21.0-37.0	250	100
2	Φ50.8	50.8	25.4	27.0-48.0	250	100

Notes: Other sizes are available upon request. **Color:** Standard color: White or yellow