

KOSOO KY-175

High-temperature, semi-rigid, chemical-resistant fluoropolymer tubing

■ Application

KOSOO KY-175 has outstanding abrasion resistance, cut-through resistance, chemical and solvent resistance and high-temperature performance. It is especially suitable for applications requiring high-temperature performance. It is also used for insulation and strain relief of soldered joints, identification and inspection of covered components.

■ Features/Benefits

- Shrink ratio: 2:1.
- Tough, semi-rigid, thin-wall insulation.
- High flame-resistance; high-temperature performance.
- Outstanding chemical and solvent resistance.
- Conform to European RoHS 2002/95/EC environmental directive.

■ Operating Temperature Range

- Operating temperature range: -55C~175C
- Minimum shrink temperature: 155C
- Minimum full recovery temperature: 175C

■ Specifications/Standards

UL224 E214175 150C 600V VW-1
AMS-DTL-23053/8

■ Specification values

	Property	Requirement	Test method	Typical value
Physical:	Tensile strength	34.5MPa min.	ASTM D 638	≥35MPa
	Elongation	150% min.	ASTM D 638	≥200%
	Heat shock 300C, 4hrs	No cracking, dripping or flowing	ASTM D 2671	Pass
	Low temperature flexibility -55C, 4hrs	No cracking	ASTM D 2671	Pass

	Aging 250C,168hrs			
	Elongation after aging	50%	ASTM D 638	≥50%
Electrical:	Dielectric voltage withstand	2500V,60sec, no breakdown	ASTM D 2671	Pass
	Volume resistivity	10 ¹³ Ω·cm min.	ASTM D 876	≥10 ¹³ Ω·cm
Chemical:	Corrosion	No corrosion	ASTM D 2671	Pass
	Flammability	VW-1	UL224	Pass

■ Product

Mm/inch

Size	Inside diameter		Wall thickness	Standard length
	As supplied (min.)	After recovery (max.)	After recovery	
3/64	1.2 / 0.046	0.6 / 0.023	0.25±0.05 / 0.010±0.002	1.2
1/16	1.6 / 0.063	0.8 / 0.031	0.25±0.05 / 0.010±0.002	1.2
3/32	2.4 / 0.093	1.2 / 0.046	0.25±0.05 / 0.010±0.002	1.2
1/8	3.2 / 0.125	1.6 / 0.063	0.25±0.05 / 0.010±0.002	1.2
3/16	4.8 / 0.187	2.4 / 0.093	0.25±0.05 / 0.010±0.002	1.2
1/4	6.4 / 0.250	3.2 / 0.125	0.30±0.08 / 0.012±0.003	1.2
3/8	9.5 / 0.375	4.8 / 0.187	0.30±0.08 / 0.012±0.003	1.2
1/2	12.7 / 0.500	6.4 / 0.250	0.30±0.08 / 0.012±0.003	1.2
3/4	19.1 / 0.750	9.5 / 0.375	0.43±0.08 / 0.017±0.003	1.2
1	25.4 / 1.000	12.7 / 0.500	0.48±0.08 / 0.019±0.003	1.2
1 ½	38.1 / 1.500	19.1 / 0.750	0.51±0.08 / 0.020±0.003	1.2
2	50.8 / 2.000	25.4 / 1.000	0.58±0.08 / 0.023±0.003	1.2

■ Ordering information

Color

Standard: clear (-CL)

Nonstandard colors can be available upon request.

Nonstandard size

Nonstandard sizes are available upon request.

Standard packaging

1.2m /length

Ordering description

Specify product type, size (mm or inch) and color.