



## **DURABLE UV RESISTANT POLYOLEFIN HEAT SHRINKABLE TUBING**

**SHRINK RATIO 3:1**

**RoHS COMPLIANT**

**UV RESISTANT**

**UV-20AL** is a highly durable Polyolefin tubing ideal for outdoor applications. The exceptional UV resistance and anti-mildew characteristics allows for long-term use in vigorous weather environments.

### ***UV-20AL Applications***

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Highly Flexible, Fast Shrinking, Abrasive Resistant

Reinforced UV and Aging Resistant Allows for Outdoor Applications

Excellent Anti-mildew and anti-acid/alkali, Non Corrosive to Copper and Aluminum

### **Characteristics**

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Operating Temperature: -45° to 125° Celsius

Shrink Temperature: 105° Celsius

Glue Melt Temperature: 90° Celsius

Meets Green-Material Standards

UL-RSCS approved

Shrink Ratio: 3:1

Water Proof

Environmentally Friendly

Colors: Standard color is Black

## Specifications

Gamma	Minimum ID Expanded		Maximum ID Recovered		Recovered Thickness		Adhesive Thickness	
	as Supplied		After Heating		After Heating		After Heating	
W/ Size	Mm	Inch	Mm	Inch	Mm	Inch	Mm	Inch
UV-20AL-1/8	3.2	0.126	1	0.039	0.95±0.08	0.037±0.003	0.35±0.08	0.0140±0.003
UV-20AL-3/16	4.8	0.189	1.6	0.063	1.10±0.08	0.043±0.003	0.40±0.08	0.0160±0.003
UV-20AL-1/4	6.4	0.252	2.2	0.087	1.20±0.08	0.047±0.003	0.45±0.08	0.0180±0.003
UV-20AL-5/16	7.9	0.311	2.7	0.106	1.35±0.08	0.053±0.003	0.50±0.08	0.0200±0.003
UV-20AL-3/8	9.5	0.374	3.2	0.126	1.45±0.08	0.057±0.003	0.50±0.08	0.0200±0.003
UV-20AL-1/2	12.7	0.500	4.2	0.165	1.70±0.08	0.067±0.003	0.50±0.08	0.0200±0.003
UV-20AL-5/8	15	0.591	5.2	0.205	1.80±0.10	0.071±0.004	0.55±0.10	0.0216±0.004
UV-20AL-3/4	19.1	0.752	6.3	0.248	2.00±0.10	0.079±0.004	0.55±0.10	0.0216±0.004
UV-20AL-1	25.4	1.000	8.5	0.335	2.10±0.10	0.082±0.004	0.55±0.10	0.0216±0.004
UV-20AL-11/2	39	1.535	13.5	0.531	2.40±0.10	0.095±0.004	0.60±0.10	0.0236±0.004

## Properties

Item	Test condition	Standard	Test Method
Physical			
Tensile Strength (Mpa)		≥12	Standard for Extruded Electrical Tubing UL 224
Elongation %		≥300	
Tensile Strength after Aging (Mpa)	158°C x 168hr	≥7.3	
Elongation after aging %	158°C x 168hr	≥100	
Electrical			
Dielectric Strength (KV/mm)		≥15	
Volume Resistance (cm)		≥1x10 <sup>14</sup>	
UV aging test	As per ISO527 1993 & ISO 4892-3:1994 fluorescence UV aging test, 1000 hours	Tensile≥10.4Mpa Elongation≥200%	Approved for 20 years

## Hot Melting Adhesive Properties

Property	Test Method	Standard
Water Absorption	ASTM-D570	<0.2%
Vicat Softening Point	ASTM-E8	95°C
Peel Strength(PE)	ASTM-D1000	120N/25m
Peel Strength(AL)	ASTM-D1000	80N/25m

Color Code: 0=BLK – This tube is only available in black.

P/N Example: UV-20AL-1/4-0 = Black 1/4" Tubing

Special sizes may be available.

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