

HEAT SHRINK TUBING SERIES

Heat Shrink Tubing Series



Technical Data :

Material : Polyolefin
 Operating Range : -55°C to +125°C
 Flammability : VW-1
 Standard Color : Black / Colors
 UL, RoHS, Halogen Free



Description: This Heat Shrink Tubing Series is halogen-free, flexible, flame-retardant polyolefin heat shrinkable tubing. It is low smoke generating, abrasion resistant and in case of burning products no dioxin. This Heat Shrink Tubing Series has excellent electrical and physical properties, including excellent acid fastness and corrosion resistance. This Heat Shrink Tubing Series is suitable for insulation use in automotive electronics, terminal lugs, small electrical parts, lead wires of toy motors and transformers etc. This product is UL 361230.

Specification

Property	Test Methods	Typical Data	Result
Shrink Temperature	Company Standard	90°C	105°C
Operating temperature Range	UL224	-55°C-150°C	
Radial shrinking change	ASTM D2671	>50%	
Longitudinal Change	ASTM D2671	-5%--+5%	-3%
Tensile Strength	ASTM D638	>10.4MPa	14.0MPa
Elongation at break	ASTM D638	>200%	400%
Tensile Strength after Aging	ASTM D638	>7.310a	9.3MPa
Elongation at break after _Aging	ASTM D638	>100%	200%
Volume Resistance	ASTM D2671	>1.0*10 ¹² Ω.cm	>3.6*10 ¹⁰ Ω.cm
Dielectric strength	UL224, AC2500v, 1min	No Breakdown	No Breakdown
Heat Shock	UL224, 136°C, 168hrs	No Cracking	No Cracking
Flammability	UL224, -30°C, 1hrs	No Cracking	No Cracking
Concentricity	ASTM D2671	>70%	

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Heat Shrink Tubing Series (Shrink Ratio 2:1)

Size	As Supplied (mm)		After Recovery (mm)	
	Inside Diameter	Wall Thickness	Inside Diameter	Wall Thickness
Φ 0.8	1.3±0.2	0.20±0.05	≤0.40	0.40±0.05
Φ 1.0	1.5±0.2	0.20±0.05	≤0.55	0.40±0.05
Φ 1.5	2.0±0.2	0.20±0.05	≤0.75	0.42±0.05
Φ 2.0	2.5±0.2	0.20±0.05	≤1.0	0.44±0.05
Φ 2.5	3.0±0.2	0.22±0.05	≤1.25	0.47±0.05
Φ 3.0	3.5±0.3	0.25±0.05	≤1.50	0.50±0.05
Φ 3.5	4.0±0.3	0.25±0.05	≤1.75	0.50±0.05
Φ 4.0	4.5±0.3	0.25±0.05	≤2.0	0.50±0.05
Φ 4.5	4.8±0.3	0.25±0.05	≤2.0	0.52±0.05
Φ 5.0	5.5±0.3	0.25±0.05	≤2.5	0.52±0.05
Φ 6.0	6.5±0.3	0.25±0.05	≤3.0	0.52±0.05
Φ 6.5	6.8±0.3	0.30±0.05	≤3.0	0.60±0.05
Φ 7.0	7.5±0.3	0.30±0.05	≤3.5	0.60±0.05
Φ 8.0	8.5±0.3	0.36±0.08	≤4.0	0.70±0.08
Φ 9.0	9.5±0.3	0.36±0.08	≤4.5	0.70±0.08
Φ 10	10.5±0.4	0.36±0.08	≤5.0	0.70±0.08
Φ 11	11.5±0.4	0.36±0.08	≤5.5	0.70±0.08
Φ 12	12.5±0.4	0.36±0.08	≤6.0	0.70±0.08
Φ 13	13.5±0.4	0.36±0.12	≤6.5	0.70±0.12
Φ 14	14.5±0.4	0.36±0.12	≤7.0	0.70±0.12
Φ 15	15.5±0.4	0.36±0.12	≤7.5	0.70±0.12
Φ 16	16.5±0.4	0.36±0.12	≤8.0	0.72±0.12
Φ 17	17.5±0.4	0.36±0.12	≤8.5	0.77±0.12
Φ 18	18.7±0.5	0.40±0.12	≤9.0	0.77±0.12
Φ 20	20.6±0.8	0.40±0.12	≤10.0	0.80±0.12
Φ 22	22.7±0.8	0.46±0.12	≤11.0	0.90±0.12
Φ 25	25.5±0.8	0.46±0.12	≤12.5	0.90±0.12
Φ 28	29.2±0.8	0.46±0.12	≤14.0	0.90±0.12
Φ 30	31.0±0.8	0.46±0.12	≤15.0	1.00±0.12
Φ 35	≥35	0.50±0.15	≤19	1.00±0.30
Φ 40	≥40	0.50±0.15	≤21	1.00±0.30
Φ 50	≥50	0.50±0.15	≤27	1.00±0.30
Φ 55	≥55	0.50±0.15	≤28	1.00±0.30
Φ 60	≥60	0.50±0.15	≤31	1.00±0.30
Φ 70	≥70	0.70±0.30	≤35.0	1.45±0.25
Φ 80	≥80	0.70±0.30	≤40.0	1.45±0.25
Φ 90	≥90	0.70±0.30	≤45.0	1.45±0.25
Φ 100	≥100	0.70±0.30	≤50.0	1.45±0.25

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Heat Shrink Tubing Series (Shrink Ratio 3:1 Adhesive Lined)

Size (inch.)	As Supplied (mm)		After Recovery (mm)	
	ID	WT	ID	WT
3/32	2.4	0.25	0.8	0.56±0.08
1/8	3.2	0.25	1.1	0.56±0.08
1/4	6.4	0.25	2.2	0.61±0.08
3/8	9.5	0.25	3.2	0.61±0.08
1/2	12.7	0.25	4.3	0.61±0.08
3/4	19.1	0.25	6.4	0.61±0.08
1	25.4	0.25	8.5	0.64±0.08

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