

FEATURES

- Shrink ratio: 3:1
- Flame retardant (colors only)
- Resistant to common solvent liquid
- Excellent physical, chemical and electrical performance
- Compliance with RoHS
- Longitudinal change - 10%~10%
- Operating temperature: - 55°C~135°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: Above 110°C

RS PRO High shrink ratio polyolefin tubing 3:1

RS Stock No.:

7004453,7004456,7004450,7004469,7004462,
7004466,7004475,7004478,7004472,7004481,
7004484,7004488,7004497,7004490,7004494,
7004504,7004507,7004501,7004510,7004513,
7004517,7004526,7004529,7004523,7004532,
7004535,7004539,7004548,7004541,7004545,
7004554,7004557,7004551,7004560,7004567,
7004573,7004582,7004589,7004595,7004608,
7004611,7004618



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

It is a high shrink ratio military grade heat shrinkable tubing made of 135°C polyolefin material. In addition to the normally reliable insulation protection, the high shrink ratio is more suitable to be applied to the product with irregular outer diameters and providing more comprehensive coverage.

General Specifications

Part Number	Color	Dimensions		
		As Supplied (mm)	After Recovery (mm)	Wall Thickness Shrunk
		D (I.D.min.)	d (I.D.max.)	w (mm)
700-4453	Clear	3.0	1.0	0.60±0.10
700-4456	Clear	6.0	2.0	0.70±0.10
700-4450	Clear	9.0	3.0	0.80±0.15
700-4469	Clear	12.0	4.0	0.85±0.15
700-4462	Clear	18.0	6.0	1.00±0.15
700-4466	Clear	24.0	8.0	1.20±0.20
700-4475	Yellow	3.0	1.0	0.60±0.10
700-4478	Yellow	6.0	2.0	0.70±0.10
700-4472	Yellow	9.0	3.0	0.80±0.15
700-4481	Yellow	12.0	4.0	0.85±0.15
700-4484	Yellow	18.0	6.0	1.00±0.15
700-4488	Yellow	24.0	8.0	1.20±0.20

700-4497	Blue	3.0	1.0	0.60±0.10
700-4490	Blue	6.0	2.0	0.70±0.10
700-4494	Blue	9.0	3.0	0.80±0.15
700-4504	Blue	12.0	4.0	0.85±0.15
700-4507	Blue	18.0	6.0	1.00±0.15
700-4501	Blue	24.0	8.0	1.20±0.20
700-4510	Red	3.0	1.0	0.60±0.10
700-4513	Red	6.0	2.0	0.70±0.10
700-4517	Red	9.0	3.0	0.80±0.15
700-4526	Red	12.0	4.0	0.85±0.15
700-4529	Red	18.0	6.0	1.00±0.15
700-4523	Red	24.0	8.0	1.20±0.20
700-4532	Black	3.0	1.0	0.60±0.10
700-4535	Black	6.0	2.0	0.70±0.10
700-4539	Black	9.0	3.0	0.80±0.15
700-4548	Black	12.0	4.0	0.85±0.15
700-4541	Black	18.0	6.0	1.00±0.15
700-4545	Black	24.0	8.0	1.20±0.20
700-4554	White	3.0	1.0	0.60±0.10
700-4557	White	6.0	2.0	0.70±0.10
700-4551	White	9.0	3.0	0.80±0.15
700-4560	White	12.0	4.0	0.85±0.15
700-4567	White	18.0	6.0	1.00±0.15
700-4573	White	24.0	8.0	1.20±0.20
700-4582	Green / Yellow	3.0	1.0	0.60±0.10
700-4589	Green / Yellow	6.0	2.0	0.70±0.10
700-4595	Green / Yellow	9.0	3.0	0.80±0.15

700-4608	Green / Yellow	12.0	4.0	0.85±0.15
700-4611	Green / Yellow	18.0	6.0	1.00±0.15
700-4618	Green / Yellow	24.0	8.0	1.20±0.20

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Tensile strength	≥10.3MPa	ASTM D2671	≥11.3MPa
Elongation at break	≥200%	ASTM D2671	≥400%
Tensile strength after aging	70% of initial value	ASTM D2671 (158°C/168 hrs)	≥80%
Elongation at break after aging	≥100%	ASTM D2671 (158°C/168 hrs)	≥200%
Heat shock	No cracking	ASTM D2671 (200°C/4 hrs)	No cracking
Low temperature flexibility	No cracking	ASTM D2671 (-55°C/4 hrs)	No cracking
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Volume resistivity	≥10 ¹⁴ Ω·cm	ASTM D2671	≥10 ¹⁴ Ω · cm
Dielectric strength	≥19.7kV/mm	ASTM D2671	22 kV/mm
Flammability	VW-1	UL224	Pass

Mechanical Specifications

Sleeve Diameter	2.4mm
Shrunk Diameter	1.2mm
Sleeve Length	10m
Wall Thickness	0.12mm
Tensile Strength	10.3MPa (min.)
Elongation	200% (min.)
Low Temperature Flexibility	during mandrel bend after 4 hours at -55°C
Flexibility	Semi-rigid
Heat Shock	flowing or cracking after 4 hours at 250°C
Specific Gravity	1.35 (max.)
Longitudinal Change	0±5%

Chemical Properties	
Transparent Stability	175°C x 24 hours
Fluid Resistance	After immersion at 24°C x 24 hours
Flammability	Flame Retarded
Tensile Strength	10.3MPa (min.)
Dielectric Strength	19.7KV/mm
Corrosion	Non-corrosive
Water Absorption	< 0.5%

Operation Environment Specifications

Operating Temperature	-55°C~135°C
Shrink Temperature	70°C
Full Recovery Temperature	Above 110°C

Approvals

Compliance/Certifications	UL224 File no.E255532, VW-1
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