



ENGLISH

## Datasheet

# RS Pro Flexible Polyolefin Heat Shrink Tubing, 2:1 Shrink Ratio



## Technical Specification

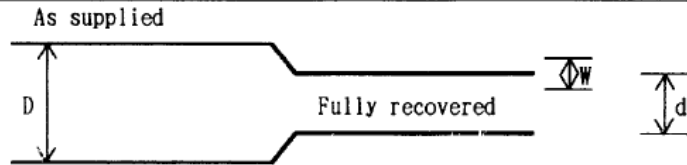
Typical Properties	Requirement	Test Method		
Physical	Tensile Strength	10.3MPa (min.)	ASTM D638	
	Ultimate Elongation	200% (min.)	ASTM D638	
	Longitudinal Change	0±5%	ASTM D2671	
	2%Secant Modulus	172.4MPa (max.)	ASTM D882	
	Specific Gravity	1.35 (max.)	ASTM D792	
	Heat Resistance	Elongation 100% (min.) after 168hours at 175°C	ASTM D638	
	Heat Shock	No dripping, flowing or cracking after 4hours at 250°C	MIL-I-23053	
	Low Temperature Flexibility	No cracking, during mandrel bend after 4hours at -55°C	MIL-I-23053	
	Flammability	Flame Retarded	UL 224 VW-1	
	Electrical	Dielectric Strength	19.7KV/mm (min.)	ASTM D2671
Chemical	Copper Contact Corrosion	Non-corrosive	MIL-I-23053	
	Water Absorption	0.5% (max.)	ASTM D570	
	Fungus Resistance	Inert		
	Fluid Resistance	Tensile strength	6.9MPa (min.)	ASTM D876
		Dielectric strength	15.8KV/mm (min.)	ASTM D2671
		Fluid;	MIL-H-5606 (Hydraulic fluid, petroleum base)	
		MIL-T-5624 (JP-4)		
	MIL-L-7808 (Lubricating oil)			
	MIL-L-23699 (Lubricating oil)			
	O-S-1926 (5 percent NaCl)			
	MIL-A-8243 (Deicing fluid)			
Specifications Reference	MIL-I-23053/5 Class 1 & Class 3			
Recognition	UL224	Voltage rating	600V	
		Temperature rating	125°C	
		File No.	E55291(Processed tubing category)	

## Dimensions

### Ordering Information

The largest size which will recover snugly over the component to be covered should be ordered.

The wall thickness of the tubing will be less than specified if recovery is restricted during shrinkage.



Ordering size	Inside diameter		Wall thickness		
	D(min) Expanded as supplied	d(max) Recovered after heating	W(nom) Recovered After heating		
mm	mm	mm	mm		
1.6	1.6	0.8	0.43		RS 666-852
2.4	2.4	1.2	0.51		RS 666-868
3.2	3.2	1.6	0.51		RS 666-874
4.8	4.8	2.4	0.51		RS 666-880
6.4	6.4	3.2	0.64		RS 666-896
9.5	9.5	4.8	0.64		RS 666-903
12.7	12.7	6.4	0.64		RS 666-919
19.0	19.0	9.5	0.76		RS 666-925
25.4	25.4	12.7	0.89		RS 666-931



## Product Safety Data and Information

Heat shrinkable, very flexible, polyolefin.

Coloured, flame-retarded.

### PHYSICAL PROPERTIES

#### Appearance and Odour:

Very flexible, hollow tubing. Various colours. Odourless.

#### Specific Gravity:

1.35

#### Solubility in Water:

Negligible. Stable in water.

#### Flash Point (°C):

Not applicable.

#### Volatility at 23°C(% w/w):

Not applicable.

### PHYSIOLOGICAL PROPERTIES

#### Acute Oral Toxicity:

Not established.

#### T. L. V.

Not applicable.

#### Local Effects on Eyes and Skin:      None

This product, as supplied, is believed to present no toxic hazard per se.



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## Storage, Handling and Preventative Measures

Storage: Store in unopened packs out of direct sunlight.

Incompatible Materials:  
Not established.

Special Precautions: Avoid contact with residues in oven. Gloves may be required to ease handling when hot after shrinking. If overheated avoid breathing fumes which may be evolved.

Thermal Decomposition Products: Short exposure to temperatures up to 250°C should have no adverse effects. However, in common with all other polyolefins, this heat shrink tubing may evolve toxic products when burnt or overheated to decomposition. Typical decomposition products would be: carbon monoxide and hydrogen halides.

Ventilation: In common with all good industrial hygiene practice install in adequately ventilated area.

Protective Clothing and Equipment: Not applicable.

Disposal: Sweep up and dump in approved site.

### EMERGENCY AND FIRST AID PROCEDURES

Eyes: Not applicable.

Ingestion: Not applicable.

Skin: Not applicable.

Spillage: Not applicable.

Fire: Product is flame-retarded but will burn if continuously exposed to flame.

Special Precautions: In the event of a fire involving polyolefins, use breathing apparatus.

Extinguishing Media: Standard (CO<sub>2</sub>, dry powder, foam).