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Datasheet

RS Assorted Adhesive Lined Heat Shrink Tubing Kit

Stock number: 417-9087

Product Specification

Mixed heat-shrink kit containing 75 pieces of flame retardant dual wall polyolefin tubing. The tubing is flexible with an inner wall of hot melt adhesive. The sleeves are supplied in a useful compartmented storage box which can be re-used. The kit can be used in many applications such as identification, insulation and protection.

Material	Dual Wall Polyolefin
Shrink Ratio	3:1
Operating Temp	-55 up to 125°C
Flammability	Flame Retardant
Min. Shrink Temp	110°C

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Kit Contents

Article	Diameter pre shrinkage (mm)	Diameter post shrinkage (mm)	Length (mm)	Quantity	Colour
241-7337	3.0	1.0	140	10	Red
241-7321	3.0	1.0	140	10	Blue
241-7315	3.0	1.0	140	10	Yellow
241-7359	3.0	1.0	140	10	White
241-7387	6.4	2.0	180	3	Red
241-7371	6.4	2.0	180	3	Blue
241-7365	6.4	2.0	180	3	Yellow
241-7393	6.4	2.0	180	3	White
241-7438	9.5	3.0	180	2	Red
241-7422	9.5	3.0	180	2	Blue
241-7416	9.5	3.0	180	2	Yellow
241-7444	9.5	3.0	180	2	White
241-7472	12.7	4.0	200	1	Red
241-7466	12.7	4.0	200	1	Blue
241-7450	12.7	4.0	200	1	Yellow
241-7488	12.7	4.0	200	1	White
241-7517	19.0	6.0	200	1	Red
241-7501	19.0	6.0	200	1	Blue
241-7494	19.0	6.0	200	1	Yellow
241-7523	19.0	6.0	200	1	White
241-7551	24.0	8.0	250	1	Red
241-7545	24.0	8.0	250	1	Blue
241-7539	24.0	8.0	250	1	Yellow
241-7602	40.0	13.0	250	1	Red
241-7595	40.0	13.0	250	1	Blue
241-7589	40.0	13.0	250	1	Yellow
241-7618	40.0	13.0	250	1	White

Technical Properties

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PHYSICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Longitudinal Change	SAE-AMS-DTL-23053	+1% to -15%	≥ -7%
Tensile Strength	ASTM D 638	Min. 10,4 MPa	≥ 15 MPa
Elongation at Break	ASTM D 638	Min. 200%	≥ 350%
Secant Modulus	ASTM D 882	Max. 173 MPa	≤ 80 MPa

THERMAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Operating Temperature	UL 224	-55 up to 125°C	-55 up to 125°C
Min. Shrink Temperature	Shrink curve	full recovery	110°C
Heat Shock (250°C x 4h)	SAE-AMS-DTL-23053	no crack, flowing or dripping	Pass
Cold Impact (-55°C x 4h)	SAE-AMS-DTL-23053	no cracking	Pass
Corrosion of bare copper (158°C x 168h)	SAE-AMS-DTL-23053	no corrosion	Pass
Colour stability (175°C x 24h)	SAE-AMS-DTL-23053	no change	Pass

CHEMICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Flammability	ASTM D 2671 (B)	Max. 60 seconds	Pass
Water Absorption	ASTM D 570	Max. 1,0%	≤ 0,5%
Fluid Resistance (after immersion 23°C x 24h)	SAE-AMS-DTL-23053	Min. 6,2 MPa (Tensile Strength)	Pass
Fluid Resistance (after immersion 23°C x 24h)	SAE-AMS-DTL-23053	Min. 7,9 kV/mm (Dielectric Strength)	Pass

ELECTRICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Voltage Rating			600V
Dielectric Voltage Withstand (2.5kV x 60s)	UL 224	no breakdown	Pass
Volume Resistivity	ASTM D 876	Min. 10^{12} Ω·cm	≥ 10^{14} Ω·cm
Dielectric Strength	ASTM D 876	Min. 11,8 kV/mm	≥ 25 kV/mm

OTHER PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Sealing Efficiency	SAE-AMS-DTL-23053	no openings on reheat	Pass