



# SM3-34 Halogen Free, Low Smoke Flexible Polyolefin



## Product Overview:

SumiMark<sup>®</sup> SM3-34 heat shrink tubing is a very flexible, flame retarded, markable product, manufactured to the highest quality standards. This product also meets print adherence requirements of SAE-AS5942, when used in conjunction with specified SumiMark<sup>®</sup> Marking Systems and SumiMark<sup>®</sup> ribbons.

## Applications:

- Wire identification
- Wire protection
- Fluid resistance
- Mass transit vehicles
- Shipboard
- Aircraft cabins

## Product Features:

- Flame retarded, self-extinguishing
- 2:1 Shrink Ratio
- Low smoke and reduced acid gas emission upon combustion
- Non-halogen
- RoHS/RoHS2 compliant
- Colors—white and yellow standard

## Recommended Printer & Ribbon:

SumiMark<sup>®</sup> Marking System    Models III or IV  
Ribbon                              SM3 Super Ribbon Only

## Print Performance:

Adherence: SAE-AS5942  
MIL-STD-202G, Method 215J  
Store in original packaging



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**Technical Specifications:**

<b>Property</b>	<b>Condition</b>	<b>Value</b>
<b>Physical:</b>		
Tensile strength (psi)	ASTM D 638	1000 min.
Elongation (%)	ASTM D 638	200 min.
Specific gravity	ASTM D 792	1.4 nom.
Low temperature flex (-30° C)	AMS-DTL-23053	No cracking
Heat shock (180° C, 4 hrs)	AMS-DTL-23053	No cracking
Heat resistance (136° C, 168 hrs)		
Tensile strength (psi)	ASTM D 638	1000 min.
Elongation (%)	ASTM D 638	150 min.
Secant modulus (psi)	ASTM D 882	2.5 X 10 <sup>4</sup> max.
Longitudinal change, L/C, (%)	ASTM D 2671	-15 min.
<b>Electrical:</b>		
Dielectric strength (volts/mil)	ASTM D 876	500 min.
Volume resistivity (ohm-cm)	ASTM D 876	1.0 X 10 <sup>12</sup> min.
<b>Fire Safety:</b>		
Oxygen index	BS 6853	34 min.
Toxic fume emission	BS 6853	1.0 max.
Smoke density, flaming mode	ASTM E 662	100 max.
Smoke density, non-flaming mode	ASTM E 662	200 max.
Radiant panel index, Is	ASTM E 162	25 max.
Shrink temperature, nominal		110° C
Operating Temperature		-30° C to +105° C