

SUMITUBE™ B2 Service Bulletin

FLEXIBLE POLYOLEFIN HEAT SHRINK TUBING

Reference for 2026 formulation change on the properties of the Heat Shrink Tubing

Outline;

This service bulletin provides guidance on the anticipated impact of the forthcoming formulation change on the performance properties of the heat shrink tubing.

General Guide per SAE AS23053/5 Class 1 and Class 3 requirements					
Performance Index	Units	Test Conditions	Requirement	Before reformulation	After reformulation
Operating Temperature	°C	N/A	-55 to 135 °C	-55 to 135 °C	-55 to 135 °C
Tensile Strength	MPa	at 500 mm/min	10.5 Min	11.9	13.0
Tensile Strength (ageing)	MPa	175°C, 168 hrs at 500 mm/min	N/A	12.8	14.1
Ultimate Elongation	%	at 500 mm/min	200 Min	492	483
Ultimate Elongation (ageing)	%	175°C, 168 hrs at 500 mm/min	100 Min	483	483
Secant Modulus	MPa	N/A	173.4 Max Limit	88.3	88.4
Low Temp. Flexibility	N/A	4 hrs at -55°C	No crack	No crack	No crack
Heat Shock	N/A	4 hrs at 250 °C	No crack	No crack	No crack
Dielectric Strength	kV/mm	N/A	19.7 Min	33.1	36.3
Fluid Resistance	MPa	MIL-PRF5606 *, **	6.9 Min	6.9	8.4
	MPa	MIL-DTL83133 *,**	6.9 Min	6.9	8.3
	kV/mm	MIL-PRF5606 **	15.8 Min	36.6	33.1
	kV/mm	MIL-DTL83133 **	15.8 Min	32.7	38.9
Flammability	N/A	ASTM D2671	N/A	Pass	Pass

* Tested at 500 mm/min
 ** After 24 hrs immersion in the fluids specified in SAE AS23053/5 at 23 °C.



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