

TECHNICAL DATA SHEET

Document number: TTDS-020

Issue: 4

Date: January 2013

HT-SCE Heat shrinkable sleeves

MATERIAL DESCRIPTION: Thin wall, flame retarded radiation cross-linked fluoropolymer heat-

shrinkable sleeve, assembled as organized cut sleeves in a "ladder"

configuration. 2:1 shrink ratio.

USE: Identification of wires and cables by computer-based printing onto

sleeves. Sleeves can also provide terminal insulation and strain relief. Suitable for many high temperature applications, especially military and aerospace applications. Can be used in space applications where low vacuum outgassing is required.

PRINTING SYSTEM: Refer to TE document 411-121005 IDENTIFICATION PRINTER

PRODUCT RIBBON MATRIX for the recommended

printer/product/ribbon combination

SERVICE TEMPERATURE: -55° C to $+225^{\circ}$ C (-67° F to $+437^{\circ}$ F).

MINIMUM RECOVERY

TEMPERATURE:

135°C (275°F).

MAXIMUM STORAGE

TEMPERATURE:

40°C (104°F).

COLORS: White or black.

HEAT AGEING: No cracking and print legible after 168 hours at 225°C (437°F).

HEAT SHOCK: No cracking, dripping or flowing and print legible after

4 hours at 275°C (527°F).

TEMPERATURE CYCLING: No cracking, dripping or flowing and print legible after 6 cycles from

-196°C (-320°F) to +200°C (+392°F).

ULTIMATE ELONGATION: 200% minimum (ASTM D2671).

TENSILE STRENGTH: 24MPa minimum (ASTM D2671).

MOLD GROWTH: Rating 1 maximum (ASTM G21).

FLAMMABILITY: UL 224 VW-1 rated

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VACUUM OUTGASSING: 1% maximum Total Mass Loss (TML) after 24 hours at 130°C

(266°F); pressure <10-5 Torr. (ASTM-E595)

0.1% maximum Vacuum Condensable Material (VCM) after 24 hours at 130°C (266°F); pressure <10-5 Torr; condensing surface at 18°C

(64°F).

CORROSIVE EFFECT (COPPER MIRROR):

Non corrosive, 16 hours at 200°C (392°F), ASTM D2671 Procedure

DIELECTRIC STRENGTH: 20MV/m minimum (ASTM D2671).

 $10^{12} \Omega$ cm minimum (ASTM D2671). **VOLUME RESISTIVITY:**

PRINT PERMANENCE AFTER

RECOVERY:

Print legible after 100 rubs (SAE AS59421, Print Adherence).

Print legible after 100 strokes (MIL-STD-202G, Method 215).

FLUID RESISTANCE: Fluid immersion for 24 hours at 23 ± 2°C (73°F) followed by

SAE AS 5942, 1kg load, 20 rubs.

Sodium chloride

(5% by weight in water)

MIL-T-83133 Aircraft fuel (JP-8)

Print legible

Print legible

MIL-L-23699 Lubricating oil Print legible

Propylene glycol de-icing

(50% solution in water)

Aviation gasoline (100/130)

Print legible

Print legible

Print legible SkydrolTM 500² hydraulic fluid

See TE specification RW-2512 for full HT-SCE performance & dimensional details.

SAE AS 5942 supersedes SAE AS81531 Print Adherence. Product performance has not changed.

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