Tyco Electronics
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TECHNICAL DATA SHEET

DESCRIPTION

HTCM-SCE cable markers (DOT MATRIX PRINTABLE)

APPLICATION/USE

Extruded radiation cross-linked modified polyvinylidene sheet, formed into punched organized cable markers. Supplied in Spool format on a core

Used in the identification of cables and wire bundles by computer-based printing onto the markers. Markers are then attached to the using cable ties. These markers are suitable for many high temperature applications, especially military and aerospace applications. Can also be used for space applications where low vacuum out gassing is required.

RECOMMENDED PRINTER & RIBBONS

New Applications.

TMS-LQ590-PRINTER using the TMS-LQ590-RIBBON

Legacy Applications

Epson LQ870 using the TMS-SYSTEM-SIX-RIBBON-A
Lexmark 2390 using the TMS-SYSTEM-SIX-RIBBON-B
AM6310D using the 1892BK04 RIBBON
Software
Tyco Electronics: WinTotal software v4.0 or newer.

ORDERING INFORMATION

HTCM-SCE-1/4-4H-<colour>, HTCM-SCE-1/4-6H-<colour>,
HTCM-SCE-1/2-4H-<colour>, HTCM-SCE-1/2-6H-<colour>,

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Thickness:	0.5mm (0.02 inches).	
Service Temperature	-55°C to + 200°C (-67°F to +392°F).	
Heat Aging	No cracking, print legible 168 hours at 225°C (437°F).	Visual
Heat Sock	No cracking, dripping or flowing, print legible after 4 hours at 275°C (527°F).	Visual
Low temperature Flexibility	No cracking after 4 hours at -55°C (-65°F), 11mm (7/16 inch) mandrel bend.	11mm mandrel bend.
Colours	White and yellow.	
Specific gravity:	1.8 maximum	ASTM D2671
Tensile Strength	20.6MPa minimum	ASTM D638
Ultimate Elongation	200% minimum	ASTM D638
Mold Growth	Rating 1 maximum	ASTM G21
Water Absorption	0.5% maximum 24 hours at 23°C (73°F)	ASTM D570
Corrosive Effect (Copper Mirror)	Non corrosive (16 hours at 200°C (392°F),	ASTM D2671(Procedure A).
VACUUM OUTGASSING:	1% max Total Mass Loss after 24 hours at 130°C (266°F); pressure $<10^{-5}$ torr. 0.1% maximum Vacuum Condensable Material after 24 hours at 130°C (266°F); pressure $<10^{-5}$ torr; condensing surface at 18°C (64°F).	TML & VCM

PRINT PERFORMANCE PROPERTIES	TEST	EFFECT
50 Dry rubs	SAE AS81531 4.6.2 (50 rubs)	Print Legible
50 strokes	MIL-STD-202F method 215J	Print Legible
JP-8 aircraft fuel (MIL-H-5624)	24 hrs at 24°C SAE AS81531 4.6.2 (20 rubs)	Print Legible
MIL-H-5606 hydraulic fluid	24 hrs at 24°C SAE AS81531 4.6.2 (20 rubs)	Print Legible
MIL-L-7808 lubricating oil	24 hrs at 24°C SAE AS81531 4.6.2 (20 rubs)	Print Legible
MIL-A-8243 anti-icing fluid	24 hrs at 24°C SAE AS81531 4.6.2 (20 rubs)	Print Legible
Aviation gasoline (100/130)	24 hrs at 24°C SAE AS81531 4.6.2 (20 rubs)	Print Legible
5% salt water	24 hrs at 24°C SAE AS81531 4.6.2 (20 rubs)	Print Legible

Note: see Tyco specification RW 2524 for full HTCM-SCE performance & dimensional details.

Product is compliant to EU RoHS Directive 2002/95/EC. This compliance information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For the latest compliance status, visit the Tyco Electronics RoHS Customer Support Center - http://www.tycoelectronics.com/customersupport/rohssupportcenter