



TECHNICAL DATA SHEET

Document number: TTDS-032
Issue: 2
Date: August 2014

RayMark Six Labels

MATERIAL DESCRIPTION:	Computer-printable zero halogen label material. Permanent pressure sensitive acrylic adhesive. Thermally stabilised white polyester film with special ink receptive latent cure epoxy coating on the label surface. After printing, the surface is heat cured, embedding the image within a tough polymeric layer.
USE:	RayMark Six labels have outstanding abrasion and fluid resistance without the need for an overlay. Ideal for applications where high performance variable data labels are needed, for example in defence, marine, rail and aerospace applications. Can be used as a wire/cable wraparound marker for substrates not less than 6mm (0.25 inches) diameter. Not recommended for outdoor use.
PRINTING SYSTEM	Print Quality and Print Performance can only be guaranteed when specific TE printer and ribbons are used. The current list of printers and ribbons can be found in TE document 411-121005 'Identification Printer Product Ribbon Matrix' This document can be found at the TE document centre: http://www.te.com/commerce/DocumentDelivery/DDEController Raymark is fully supported by WINTOTAL and PrintEasy label printing software, available from the TE product store: http://www.te.com/en/general/label-printing-software.html Contact a TE representative for further information
CURING CONDITIONS:	5 minutes at 150°C (302°F) in an air circulating oven.
SHELF LIFE/STORAGE CONDITIONS:	Can be stored unopened for 12 months at temperatures not exceeding 35°C (95°F). Once opened, product should be stored below 25°C (77°F) and 80% relative humidity and used within 6 months.
SERVICE TEMPERATURE:	Wiring marking: -40°C to +85°C (-40°F to +185°F) continuous. Panel marking: -40°C to +105° (-40°F to +221°F) continuous.
INSTALLATION TEMP:	+10°C to +40°C (+50°F to +104°F).
COLOURS:	White.

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Property	Test Method	Required
Fungus Resistance	BS EN 60068-2-10:2005 Print Legibility TE108-121012	Rating 1 (max) Legible, print contrast >3
Light fastness, xenon arc	250 hour, ASTM G155-05a Print Legibility TE108-121012 Adhesion to aluminium plate TE 108-121030	Legible, print contrast >3 20N/25mm adhesion
Continuous humidity	168h, 40°C (104°F)/95% RH Print Legibility TE108-121012 Adhesion to aluminium plate TE 108-121030	Legible, print contrast >3 15N/25mm adhesion
Thermal ageing	168h at 150°C (302°F) Print Legibility TE108-121012 Adhesion to aluminium plate TE 108-121030	Legible, 30N/25mm adhesion
Thermal cycling	4 hours at -55°C (-67°F) 4 hours at 25°C (77°F) 4 hours at 150°C (302°F) 4 hours at 25°C (77°F) Print Legibility TE108-121012 Adhesion to aluminium plate TE 108-121030	Legible, 25N/25mm adhesion
Dry abrasion resistance	TE 109-121020 500 cycles, 500g, CS10 wheel	Legible, print contrast >3
<u>180° Adhesion to:</u>		
Stainless steel		15 N/25mm
Aluminium		20 N/25mm
Acrylic painted surface	TE 109-121030	20 N/25mm
ABS		20 N/25mm
Nylon		15 N/25mm
PVC		15 N/25mm

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MARK PERMANENCE:

Fluid	Test Method	Required
MIL STD 202G Method 215 Solvent A Solvent B Solvent D	TE 109-121014 30 strokes, toothbrush	Legible, print contrast >3
Fluid Resistance		
100°C, 2 hours: Water		
50°C, 24 hours: - Lubricating Oil O-149 - Salt water solution (3.5% mass/mass)	Mark permanence and 180° Peel test to aluminium substraight	
23°C, 24 hours: - White Spirit - Iso Propyl Alcohol - Ethylene Glycol - Hydraulic Fluid H-515 - Diesel Fuel	Immersion, followed by Print Permanence, TE 109-121012, 20 rubs, 1kg load	Print legible, minimum print contrast 3 10 N/25mm minimum
23°C, 1 hour: Skydrol 500B4	Immersion followed by 180° peel test, TE 109-121030	

Further information and availability can be found through the TE Cable Identification web site:
<http://www.te.com/catalog/labels-identification/menu/en/12933?BML=10576>

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