ALTEC
INDUSTRIAL IDENTIFICATION

Technical datasheet

A376

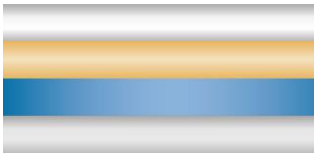
UL94 VTM 0 MATTE WHITE POLYIMIDE LABEL

Description

A376 is a 1 mil (25 µm) polyimide film with a high-temperature, permanent, pressure sensitive acrylic adhesive and a high opacity, semi-gloss white topcoat specifically designed to be **flame retardant** to the UL94 VTM-0 standard.

Material	Polyimide
Finishing	Matte
Color	White
Adhesive	Permanent acrylic

Layers



- Semi-gloss white print surface
- Polyimide film
- Acrylic PSA
- Glassine liner

Features

- Designed to prevent the propagation of fire
- Meets the UL94 VTM-0 standard.
- Halogen-free
- Can be printed with thermal transfer systems
- When printed with a recommended thermal transfer ribbon, the label is resistant to chemical exposure such as isopropanol, terpene, and saponifiers.
- The image is smear-resistant, even when the directly exposed to rubbing or incidental contact.
- Dimensionally stable at high temperatures

Technical data

Properties	Test method	Average results (Imperial Units)	Average results (SI Units)
Thickness	ASTM D-1000		
Face		1.5 mil	38 µm
Adhesive		1.1 mil	28 µm
Total		2.6 mil	66 µm
Adhesion			
Stainless steel	20 minute dwell	≥ 27 oz/in	≥ 29 N/100 mm
	24 hour dwell	≥ 32 oz/in	≥ 35 N/100 mm
Tack		≥ 1000 g/in	≥ 39 g/mm
Opacity		≥ 85%	
Color		White	
Gloss	BYK Gardner	75GU @ 140 °F (60 °C)	
Flammability	UL94 Standard		
	VTM-0 rating	Pass	
	V0 rating	Pass (Aluminium substrate)	
Federal aviation regulation	25.853 & 25.855	Pass	
Smoke	BSS7238	Pass	
Toxicity	BSS7239	Pass	
Automotive Interiors	FMVSS302	Pass	
Weatherometer Testing	ASTM G154	No Visible Effect	

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Temperature Rating	Long term	100 hrs @ 257 ºF, 24 hrs @ -94 ºF	100 hrs @ 125 ºC, 24 hrs @ -70 ºC
	Operating	5 mins @ -67 ºF to 500 ºF	5 mins @ -55 ºC to 260 ºC
	Short term	90 sec @ 572 ºF	90 sec @ 300 ºC
Shelf life	1 year below 80 ºF (27 ºC) and 60% R.H.		

Durability testing: heat / chemical

Test fluids	PCS[1]	Read Rate[2]
Control: 158 ºF (70 °C), 5 min.	99%	100%
Re-entry KNI 2000 Terpene 104 ºF - 113 ºF (40 ºC - 45 ºC), 5 min.	98%	100%
Isopropanol 99%, 158 ºF (70 ºC), 5 min.	99%	100%

1 PCS Print Contrast Signal. PCS determined with Quick Check 650, 0.005" aperture, 660 nm wave lengths. Quick Check 650 manufactured by: Photographic Sciences Corp.
2 Read rate determined using PSC 850 laser scanner.

Certificates

REACH
Please contact Altec for the latest REACH document available.
RoHS
Please contact Altec for the latest RoHS document available.

Special considerations

- The surface on which the label is applied should be clean, dry and free of any contamination, such as dust, oil or rust. Isopropyl alcohol is recommended to clean the surface.
- Use firm pressure when applying label to increase the physical contact of the adhesive with the surface.
- Pressure sensitive adhesives will provide stronger bonds to warm surfaces by increasing adhesive flow and peel strength.
- Preheating the labeled product can enhance print permanence for cases of extreme solvent and/or abrasion exposure.
- Topcoat and print should not be contacted while exposed to elevated temperature.

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