

KODAK Film Manufacturing Certificates of Analysis:

KODAK ACCUMAX Photoplotter Films APR7 RED7 ABG7

KODAK PRECISION LINE Film LPF7

Dear Valued Customer:

Kodak takes great care in assuring product quality and that all products are released to our specifications.

The following sites are used in the manufacture of PCB Films:

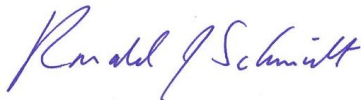
Kodak Park, Rochester, NY
Kodak De Mexico, Guadalajara, Mexico
Kodak Haicang, China

Each site maintains its own set of ISO certifications. The most recent ISO certificates can be found on our website. Our participation with ISO certification ensures that we manufacture product to strict specifications using statistical process control methods that are well documented and maintained.

In addition to ISO Certification, all product released conform to the specifications described in this document.

Kodak does not recommend testing for these quality properties by customers. Testing outside of tightly controlled laboratory conditions is highly variable and may not be a good indicator of product conformance. Some tests are proprietary, and cannot be reproduced outside of Kodak. Kodak will gladly re-test product suspected to be non-conforming to specifications. Contact your local Kodak Representative if you should have any product questions.

Best Regards,



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Certificates of Analysis

Property	Specifications			
	APR7	RED7	ABG7	LPF7
Product Designation				
Manufacturing Code	7903	4912	1907	4606
Expiration Date (Months after sensitizing)	36 months	30 months	36 months	36 months
Base Material of Construction (MOC)	Polyethylene Terephthalate (PET)			
Base Thickness (micrometers)	178 μ m +/- 5 μ m			
AI (488nm) Sensitometric Speed @ 0.60 density	n/a	n/a	Aim +/- 0.05 logE	n/a
HN (633nm) Sensitometric Speed @ 0.60 density	Aim +/- 0.05 logE	Aim +/- 0.05 logE	n/a	n/a
LD (670nm) Sensitometric Speed @ 0.60 density	Aim +/- 0.05 logE	Aim +/- 0.05 logE	n/a	n/a
Tungsten (3000K) Speed @ 0.60 density	n/a	n/a	n/a	Aim +/- 0.07 logE
D_{max} density	≥ 4.5	≥ 4.5	≥ 4.5	≥ 4.5
D_{min} density	≤ 0.04	≤ 0.04	≤ 0.04	≤ 0.04



Location of Expiration Date and Emulsion Code:

This information can be located on: box and bag labels.

Box label	Bag Label
<p>Description of Printed Data</p>	<p>Description of Printed Data</p>
<p>KDM box label 0024</p>	<p>KDM bag label 0005</p>
<p>Film Commercial Name (top)</p>	<p>Film Commercial Name</p>
<p>Film Commercial Name (edge)</p>	<p>Presentation (# of sheets)</p>
<p>Presentation (# of sheets)</p>	<p>Commercial name</p>
<p>Sheet size (inches)</p>	<p>Abbreviation</p>
<p>Sheet size (metric)</p>	<p>Catalog number</p>
<p>Expiration date (month/year)</p>	<p>Sheet size (inches)</p>
<p>Film code (Mfg. name)</p>	<p>Expiration date (month/year)</p>
<p>Emulsion number</p>	<p>Film code (Mfg. name)</p>
<p>Roll number (slit)</p>	<p>Emulsion number</p>
<p>Product code for WWW</p>	<p>Roll number</p>
<p>Commercial name</p>	<p>Mfg. Order number & Product Units finished</p>
<p>Abbreviation</p>	<p>Safelight Filter code</p>
<p>Catalog number</p>	
<p>Mfg. Order number</p>	
<p>Total boxes per Mfg. Order</p>	
<p>Safelight Filter code</p>	
<p>Cat number (scan system)</p>	
<p>Label base ID (print system)</p>	
<p>Individual label number</p>	

