



**International
Standard**

ISO 105-B04

**Textiles — Tests for colour
fastness —**

**Part B04:
Colour fastness to artificial
weathering: Xenon arc fading
lamp test**

Textiles — Essais de solidité des coloris —

*Partie B04: Solidité des coloris aux intempéries artificielles :
Lampe à arc au xénon*

**Fifth edition
2024-03**



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Materials	2
5.1 Blue wool references.....	2
5.2 Glass case for blue wool references.....	2
5.3 Specimen mounting cards.....	2
5.4 Specimen covers.....	2
5.5 Specimen holders.....	2
5.6 Grey scale for assessing change in colour.....	2
6 Apparatus	3
6.1 Laboratory light source.....	3
6.1.1 General.....	3
6.1.2 Spectral irradiance.....	3
6.2 Test chamber.....	4
6.3 Radiometer.....	5
6.4 Temperature sensors.....	5
6.4.1 General.....	5
6.4.2 Chamber air temperature thermometer.....	5
6.4.3 Black-standard thermometer (BST) and black-panel thermometer (BPT).....	5
7 Exposure conditions	5
7.1 General.....	5
7.2 Exposure of test specimens.....	5
7.3 Exposure of colour fastness references.....	6
8 Test specimens	6
9 Procedure	6
9.1 General.....	6
9.2 Exposure methods.....	7
9.2.1 General.....	7
9.2.2 Method 1.....	7
9.2.3 Method 2.....	7
9.2.4 Method 3.....	8
9.3 Drying.....	8
9.4 Mounting for assessment.....	8
10 Assessment of colour fastness to weathering	8
11 Test report	9
Annex A (informative) General information on colour fastness to light	10
Annex B (informative) Radiometer for controlling exposure duration	12
Bibliography	13