



ISO 28641

Rubber compounding ingredients — Organic chemicals — General test methods

*Ingrédients de mélange du caoutchouc — Produits chimiques
organiques — Méthodes d'essai générales*

Third edition
2026-08

This is a preview of ISO 28641:2026. Click [here](#) to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2026

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

This is a preview of ISO 28641:2026. [Click here to purchase the full version from the ANSI store.](#)

Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	2
5 General requirements	2
5.1 Thermometer	2
5.2 Desiccator	2
6 Sampling	2
6.1 Apparatus	2
6.2 Sampling method	2
7 Test methods	2
7.1 Density and relative density	2
7.1.1 General	2
7.1.2 Hydrometer method	3
7.1.3 Pyknometer method	3
7.1.4 Expression of results	5
7.1.5 Test report	6
7.2 Loss on heating	6
7.2.1 General	6
7.2.2 Method A	6
7.2.3 Method B	7
7.2.4 Precision	9
7.2.5 Method C	9
7.2.6 Expression of results	12
7.2.7 Test report	12
7.3 Sieve residue	13
7.3.1 General	13
7.3.2 Principle	13
7.3.3 Reagents	13
7.3.4 Apparatus	13
7.3.5 Procedure	13
7.3.6 Calculation	14
7.3.7 Expression of results	14
7.3.8 Precision	14
7.3.9 Test report	14
7.4 pH of water extract	14
7.4.1 Principle	14
7.4.2 Apparatus	15
7.4.3 Procedure	15
7.4.4 Test report	16
7.5 Melting point	16
7.5.1 General	16
7.5.2 Method A1	16
7.5.3 Method B	18
7.5.4 Method C	19
7.5.5 Expression of results	21
7.5.6 Precision	21
7.5.7 Test report	21
7.6 Temperature of solidification	21
7.6.1 Principle	21
7.6.2 Apparatus	21
7.6.3 Procedure	22

This is a preview of ISO 28641:2026. [Click here to purchase the full version from the ANSI store.](#)

7.7	Softening point.....	24
7.7.1	General.....	24
7.7.2	Principle.....	24
7.7.3	Apparatus.....	24
7.7.4	Procedure.....	25
7.7.5	Expression of results.....	26
7.7.6	Precision.....	26
7.7.7	Test report.....	26
7.8	Density of the bulk material.....	26
7.8.1	Principle.....	26
7.8.2	Method A (constant mass method).....	26
7.8.3	Method B (constant volume method).....	28
7.8.4	Test report.....	28
7.9	Ash.....	29
7.9.1	Principle.....	29
7.9.2	Apparatus.....	29
7.9.3	Procedure.....	29
7.9.4	Calculation.....	29
7.9.5	Expression of results.....	30
7.9.6	Precision.....	30
7.9.7	Test report.....	30
7.10	Refractive index.....	30
7.10.1	Principle.....	30
7.10.2	Apparatus.....	30
7.10.3	Procedure.....	31
7.10.4	Expression of results.....	32
7.10.5	Precision.....	32
7.10.6	Test report.....	32
Annex A (normative)	Verification of accuracy of pH-meter.....	34
Annex B (normative)	Calibration of the pH-meter.....	38
Annex C (informative)	Precision.....	40
Annex D (informative)	Conversion formulae between density and relative density.....	46
Annex E (normative)	Automatic measurement methods of melting point.....	47
Bibliography		51

This is a preview of ISO 28641:2026. Click [here](#) to purchase the full version from the ANSI store.

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 3, *Raw materials (including latex) for use in the rubber industry*.

This third edition cancels and replaces the second edition (ISO 28641:2018), which has been technically revised.

The main changes are as follows:

- updating of the normative references and bibliography;
- addition of an automatic measurement in melting point (see methods A1, A2 and A3);
- addition of a new method of loss on heating (see method C);
- addition of permission for using an Abbe reflectometer with automatic reading device in refractive index;
- addition of automatic measurement methods of melting point (methods A2 and A3) in [Annex E](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.