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ISO/TC 61/SC 2

Secretariat: KATS

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Plastics — Verification of pendulum impact-testing machines — Charpy, Izod and tensile impact-testing

Plastiques — Vérification des machines d'essai de choc pendulaire — Essais de choc Charpy, Izod et de choc-traction

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 2, *Mechanical properties*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 249, *Plastics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 13802:2015), which has been technically revised.

The main changes are as follows:

— ~~—~~removed term entries 3.6 (gravity length), 3.7 (gyration length), and 3.19 (half-height Charpy impact reference specimen) and renumbered ~~Clause 3~~3 accordingly;

— ~~—~~corrected the measurement unit and the requirement in ~~6.2.4;~~6.2.4;

— ~~—~~updated acceptance criteria in ~~6.6.3;~~6.6.3;

— ~~—~~updated the references in ~~the~~ Note 2 of the ~~Clause 7;~~7;

— ~~—~~corrected value D_1 in ~~Table A.1~~Table A.1 to align with the value indicated in ~~Table 4;~~Table 4;

— ~~—~~corrected value p_1 in ~~Table B.1~~Table B.1 to align with the value indicated in ~~Table 4;~~Table 4;

~~—~~ ~~corrected the Formulae (D.4) and (D.5) in Annex D.~~

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— corrected the 0 and 0 in Annex D.

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~~www.iso.org/members.html.

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Introduction

A pendulum impact-testing machine verified in accordance with this document, and assessed as satisfactory, is considered suitable for impact testing with unnotched and notched test specimens of different types.

The verification of some geometrical properties is difficult to perform on the assembled instrument. It is, therefore, assumed that the manufacturer is responsible for the verification of such properties and for providing reference planes on the instrument that enable proper verification in accordance with this document.

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