

DIN ISO 4649:2021-06 (E)

Rubber, vulcanized or thermoplastic - Determination of abrasion resistance using a rotating cylindrical drum device (ISO 4649:2017)

| Contents | Page |
|--|-------------|
| National foreword | 3 |
| National Annex NA (informative) Bibliography | 5 |
| Foreword | 6 |
| Introduction | 7 |
| 1 Scope | 8 |
| 2 Normative references | 8 |
| 3 Terms and definitions | 8 |
| 4 Principle | 9 |
| 5 Apparatus and materials | 11 |
| 6 Calibration | 12 |
| 7 Test pieces | 12 |
| 7.1 Type and preparation | 12 |
| 7.2 Number | 13 |
| 7.3 Time interval between vulcanization or forming and testing | 13 |
| 7.4 Conditioning | 13 |
| 8 Test temperature | 13 |
| 9 Procedure | 13 |
| 9.1 General test procedure | 13 |
| 9.2 Comparison against standard reference compounds or user-defined reference compounds | 14 |
| 9.3 Density | 15 |
| 10 Expression of results | 15 |
| 10.1 General | 15 |
| 10.2 Relative volume loss, ΔV_{rel} | 15 |
| 10.3 Abrasion resistance index | 16 |
| 11 Precision | 16 |
| 12 Test report | 16 |
| Annex A (normative) Suitable abrasive sheet | 17 |
| Annex B (normative) Standard and user-defined reference compounds | 18 |
| Annex C (normative) Calibration schedule | 23 |
| Annex D (informative) Precision and bias | 26 |
| Bibliography | 28 |