

ISO 1658:2022-01 (E)

Natural rubber (NR) - Evaluation procedure

| Contents | Page |
|--|-------------|
| Foreword..... | iv |
| 1 Scope..... | 1 |
| 2 Normative references..... | 1 |
| 3 Terms and definitions..... | 1 |
| 4 Sampling and further preparative procedures..... | 2 |
| 5 Physical and chemical tests on raw rubber..... | 2 |
| 5.1 Mooney viscosity..... | 2 |
| 5.2 Volatile-matter content..... | 2 |
| 5.3 Other specifications on requirements..... | 2 |
| 6 Preparation of test mix..... | 2 |
| 6.1 General..... | 2 |
| 6.2 Standard test formulae..... | 2 |
| 6.3 Procedure..... | 3 |
| 6.3.1 Equipment and procedure..... | 3 |
| 6.3.2 Mill mixing procedure for Formulae (1) and 2 (gum compounds)..... | 3 |
| 6.3.3 Mill mixing procedure for Formulae (1) and 2 (gum compounds) using masterbatches..... | 4 |
| 6.3.4 Mixing procedures for Formula (3) (black-filled compound)..... | 4 |
| 7 Evaluation of vulcanization characteristics by a curemeter test..... | 8 |
| 7.1 Using an oscillating-disc curemeter..... | 8 |
| 7.2 Using a rotorless curemeter..... | 8 |
| 8 Evaluation of tensile stress-strain properties of vulcanized test mixes..... | 9 |
| 9 Precision statement..... | 9 |
| 10 Test report..... | 9 |
| Annex A (normative) Procedure for preparing gum compounds through use of masterbatches..... | 10 |
| Annex B (informative) Precision statement for both mill and internal mixer..... | 12 |
| Bibliography..... | 17 |