

# DIN ISO 289-1:2018-12 (E)

## Rubber, unvulcanized - Determinations using a shearing-disc viscometer - Part 1: Determination of Mooney viscosity (ISO 289-1:2015)

---

| <b>Contents</b>   | <b>Page</b> |
|---|-------------|
| National foreword.....  | 3           |
| National Annex NA (informative) Bibliography.....                                     | 4           |
| Foreword.....   | 5           |
| <b>1 Scope</b> .....  | <b>6</b>    |
| <b>2 Normative references</b> .....   | <b>6</b>    |
| <b>3 Principle</b> .....  | <b>6</b>    |
| <b>4 Apparatus</b> .....  | <b>6</b>    |
| 4.1 Typical shearing-disc viscometer.....   | 6           |
| 4.2 Dies.....   | 7           |
| 4.3 Rotor.....  | 7           |
| 4.4 Heating device.....   | 7           |
| 4.5 Temperature-measurement system.....   | 10          |
| 4.6 Die-closure system.....   | 10          |
| 4.7 Torque-measurement device and calibration of the device.....                      | 11          |
| <b>5 Preparation of test piece</b> .....  | <b>12</b>   |
| <b>6 Temperature and duration of test</b> .....                                       | <b>12</b>   |
| <b>7 Procedure</b> .....  | <b>12</b>   |
| <b>8 Expression of results</b> .....  | <b>13</b>   |
| <b>9 Precision</b> .....  | <b>13</b>   |
| <b>10 Test report</b> .....   | <b>13</b>   |
| <b>Annex A (informative) Precision statement</b> .....                                | <b>15</b>   |
| <b>Annex B (informative) Heat-stable film for Mooney viscosity measurements</b> ..... | <b>18</b>   |
| <b>Annex C (normative) Calibration schedule</b> .....                                 | <b>21</b>   |