

# ISO 11236:2017-08 (E)

## Rubber compounding ingredients - p-Phenylenediamine antidegradants (PPDs) - Test methods

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Abbreviated terms .....	2
5	Use and classification .....	2
6	Sampling and repeat determinations .....	3
7	Determination of purity by gas chromatography (GC) .....	3
7.1	General .....	3
7.2	Interference .....	3
7.3	Apparatus .....	3
7.4	Calibration and standardization .....	5
7.5	Procedure .....	5
7.5.1	Sample preparation .....	5
7.5.2	Procedure A .....	5
7.6	Calculation .....	11
7.7	Precision and bias .....	11
7.8	Test report .....	11
8	Determination of purity by high-performance liquid chromatography (HPLC) .....	11
8.1	General .....	11
8.2	Apparatus .....	11
8.3	Reagents .....	12
8.4	Procedure .....	12
8.5	Calculation .....	14
8.6	Precision and bias .....	14
8.7	Test report .....	15
9	Determination of ash .....	15
9.1	General .....	15
9.2	Apparatus .....	15
9.3	Procedure .....	15
9.4	Calculation .....	16
9.5	Precision and bias .....	16
9.6	Test report .....	16
10	Determination of volatile matter .....	16
10.1	General .....	16
10.2	Apparatus .....	17
10.3	Preparation of sample .....	17
10.4	Procedure .....	17
10.5	Calculation .....	17
10.6	Precision and bias .....	17
10.7	Test report .....	18

<b>Annex A (informative) Precision and bias .....</b>	<b>19</b>
<b>Bibliography .....</b>	<b>22</b>