

# ISO 18553:2025-03 (E)

## Method for the assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Principle .....	1
5	Apparatus .....	2
5.1	General .....	2
5.2	For the microtome procedure (see 6.1.2) .....	2
5.3	For the compression procedure (see 6.1.3) .....	2
6	Procedure .....	2
6.1	Test piece preparation .....	2
6.2	Microscopic examination .....	5
6.2.1	Examination for assessment of the grade of dispersion .....	5
6.2.2	Examination for rating of appearance .....	5
7	Expression of results .....	5
7.1	Grading of particle and agglomerate size .....	5
7.2	Rating of appearance .....	5
8	Test report .....	5
Annex A (normative) Grading tables for particles and agglomerates and for rating of appearance .....		7
Annex B (normative) Photomicrographs (reference pictures) .....		9
Annex C (informative) Grading of particles and agglomerates, and rating of appearance -- Examples .....		14
Annex D (informative) Basic specification .....		16
Annex E (informative) Example of an agglomerate spread by compression procedure .....		17