

ISO 18553:2025-03 (E)

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

Contents		Page
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