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