

ISO 17541:2014-09 (E)

Plastics - Quantitative evaluation of scratch-induced damage and scratch visibility

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	3
5	Apparatus	3
5.1	General description	3
5.2	Scratch tip	3
5.3	Load and position sensors	4
5.4	Test load	4
5.5	Test speed	4
5.6	Specimen stage	4
6	Test specimens	5
6.1	General	5
6.2	Shape and dimensions	5
6.3	Preparation	5
6.4	Conditioning	5
6.5	Number of test specimens	5
7	Procedure	5
7.1	Test atmosphere	5
7.2	Scratch tip	5
7.3	Method A (constant load condition)	5
7.4	Method B (linearly increasing load condition)	6
7.5	Scratch testing	6
8	Interpretation of result	7
8.1	General	7
8.2	Scratch strength and scratch resistance	7
8.3	Single-damage (SD)	7
8.4	Multiple-damage (MD)	8
9	Test report	10
Annex A (informative) 3-D colour model		12
Annex B (informative) Example for quantitative determination of scratch damage and scratch visibility		13
Bibliography		17