

ISO 9370:2017-04 (E)

Plastics - Instrumental determination of radiant exposure in weathering tests - General guidance and basic test method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Significance and use	6
4.1	General considerations	6
4.2	Natural weathering -- Fixed-angle or equatorial-mount exposure	7
4.3	Accelerated natural weathering -- Solar-concentrating exposures using Fresnel-reflecting concentrators	7
4.4	Artificial accelerated weathering and artificial accelerated irradiation	7
5	Apparatus	8
5.1	General	8
5.2	Non-selective radiometers (see Table 1)	10
5.3	Selective (UV) radiometers (see Table 2)	10
5.4	Recorders and data loggers	11
6	Calibration	11
6.1	General	11
6.2	Reference and field radiometers	12
6.3	Selective reference radiometers	12
6.4	Selective field radiometers	13
6.5	Other requirements	13
7	Procedure	13
7.1	Natural weathering -- Fixed-angle or equatorial-mount exposure	13
7.2	Accelerated natural weathering -- Solar concentrating exposures using Fresnel-reflecting concentrators	14
7.3	Artificial accelerated weathering or artificial accelerated irradiation	14
8	Exposure report	14
Annex A (informative) Comparison of typical wide-band UV radiometers		16
Annex B (informative) Spectral mismatch of selective filter radiometers		17
Bibliography		20