

CONTENTS

Recent Developments in the Analysis and Prediction of the Weatherability of Plastics	1
Some Weathering Characteristics of Plastics	29
Fundamental Degradation Processes Relevant to Outdoor Exposure of Polymers	41
Energy Characteristics of Outdoor and Indoor Exposure Sources and Their Relation to the Weatherability of Plastics	61
Survey of Techniques for Evaluating Effects of Weathering on Plastics	85
Accelerated Weathering of Polymers: Radiation	97
Accelerated Light Exposure in the Xenotest: Results, Limits, and Comparison with Conventional Equipment	111
Actinometry of Sunlight at Kingsport, Tennessee	119
A New Technique for Evaluating Outdoor Weathering Properties of High Density Polyethylene	131
Practical Approach to the Study of Weathering Performance	155
Determination of Hydroperoxide Groups in Oxidized Polyethylene	167
Factors Affecting Light Resistance of Polypropylene	175
Outdoor Exposure of Organotin-Stabilized Rigid PVC	189
Accelerated Aging of Poly (methyl Methacrylate) Copolymers and Homopolymers	205
Factors Affecting the Environmental Stability of Laminates	219
Analysis of Plastic Weathering Results	245
Information Retrieval (IR) for an Outdoor Exposure Evaluation Facility	262
The Quantitative Interpretation of Color Changes and the Calculation of Internal Light in Pigment-Coated Systems	289
Author Index	303
Subject Index	305