

ISO 12086-2:2006-02 (E)

Plastics - Fluoropolymer dispersions and moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	3
4	Abbreviated terms and symbols	4
5	Sampling	5
6	Preparation of test specimens	5
7	Conditioning and test conditions	5
8	General testing of fluoropolymers	5
8.1	Electrical properties	6
8.2	Mechanical properties	8
8.3	Thermal-transition temperatures	10
8.4	Density	11
8.5	Flammability by oxygen index	11
8.6	Particle size and size distribution	11
9	Testing of fluoropolymer dispersions	17
9.1	General	17
9.2	Preparation of test samples	18
9.3	Isolation of PTFE from dispersion	18
9.4	Coagulum in dispersions	19
9.5	Percentage polymer and surfactant in aqueous dispersion	19
9.6	PTFE solids content by hydrometer	20
9.7	pH of dispersions	21
10	Testing of PTFE and closely related materials	21
10.1	General	21
10.2	Preparation of test specimens by moulding	21
10.3	Bulk density	23
10.4	Extrusion pressure	27
10.5	Powder-flow time	32
10.6	Standard specific gravity (SSG), extended specific gravity (ESG) and thermal-instability index (TII)	34
10.7	Stretching-void index (SVI)	37
11	Testing of conventionally melt-processible fluoropolymers	38
11.1	Preparation of test specimens by moulding	38
11.2	Melt mass-flow rate (MFR) and melt volume-flow rate (MVR)	39
12	Other test methods used with fluoropolymers	41
12.1	Brittleness temperature of plastics and elastomers by impact	41
12.2	Coefficients of static and kinetic friction	41
12.3	Zero-strength time	41
Annex A (informative) Listing of test methods (alphabetical order)		42
Annex B (informative) Designatory properties for common fluoropolymer types with Bibliography		45