

CONTENT

	Page
1. Introduction	3
2. Flame Retarding Mechanism	3
3. Flame Retardants	4
3.1 Bromine-Containing Flame Retardants	4
3.2 Bromine / Phosphorus Flame Retardants	11
3.3 Chlorine-Containing Flame Retardants	11
3.4 Phosphorus-Containing Flame Retardants	16
3.5 Antimony Oxides	19
3.6 Alumina Trihydrate (ATH)	20
3.7 Magnesium Hydroxide	20
3.8 Intumescent Systems	20
4. Flame Retarded Polymers	21
4.1 Polyethylene	21
4.2 Flame Retarded Polypropylene	22
4.3 General Purpose Polystyrene	22
4.4 High Impact Polystyrene (HIPS)	23
4.5 Acrylonitrile-Butadiene-Styrene (ABS)	25
4.6 Modified Polyphenylene (ABS)	26
4.7 Polycarbonate	26
4.8 Polybutylene Terephthalate (PBT)	28
4.9 Polyethylene Terephthalate (PET)	29
4.10 Polymer Blends and Alloys	29
4.11 Nylon	30
4.12 Polyvinyl Chloride (PVC)	30
4.13 Flexible Polyurethane Foam	31
4.14 Inherently Flame Retardant Polymers	31
5. Smoke Suppressants	35
6. Markets	37
7. Current and Future Trends	41
8. Review Articles	42
Additional References	42
References and Abstracts	43
Subject Index	119