

INDEX

- Adhesion promoters, 363–365
Adhesives, 49
Air entrapment, 42
Antifogging agents, 362
Antistatic agents, 350–362
 ionic, 356–357
 nonionic, 354–356
 test methods, 362
Antioxidants, 78–81
Automotive interiors, 112–113,
 221–225, 256
- Benzoate plasticizers, 240–256
Blending resin, 41
Blowing agents, 379–383
Bonding agents, 416
- Calcium carbonate, 153–161
Carbon black, 144–145, 169–170
Coated fabric, 385–386
Coating, 45, 50
Color measurement, 135–137
Compound analysis, 462–464
Compound development, 7–8
Copolymer resin, 41–42, 48–50
Cost of ingredients, 8
Coupling agents, 170
Cove base, 29, 217
Crosslinked PVC, 71–74
- Data analysis, 523–526
Design of experiments, 11, 515–527
Dispersion resin, 40, 48
Dry blending, 220–221, 493
Durability, 450–455
- EPA, 471–477
Electrical properties, 458–461
Epoxy costabilizers, 120–122
- FDA, 468–471
Feldspar, 166–167
Flame propagation, 295–297
Flame retardant synergists, 297
Flame retardants
 antimony, 404–408
 ATH, 408–409
 magnesium, 409–410
 molybdenum, 411–413
 zinc, 410–411
Flame spread, 300–303
Flammability testing, 413–414, 455–458
Flexible foam, 49, 387
Flexible film and sheet, 30–32, 210–214,
 267–268, 346–347
Flexible molding, 32–33, 46
Flexible profiles, 27
Formulation development, 1–12
 effect on processing, 2–3
 effect on properties, 3–7
 for impact strength, 312–313
 with processing aids, 319–326
Fusion, 443–445
- Gloss control agents, 150
- Heat stabilizers, 84–87, 423–426,
 510–512
- Impact characterization, 308–309
Impact modification mechanism, 306–308

- Impact modifiers, 310–312, 505
- Inorganic pigments, 141–147
- Kaolin, 164–165
- Lead stabilizers, 87–92
- Lubricant selection, 339–340
- Lubricants
 - amide, 336
 - carboxylate salts, 338–339
 - carboxylic acid, 335
 - characteristics of, 328–333
 - ester, 336–338
 - hydrocarbon, 333–335
- Manufacture of PVC, 18
- Melt strength, 318
- Metal release, 317
- Mica, 165–166
- Microspheres, 170
- Mixed metal stabilizers, 107–119
 - liquids, 114–119
 - powders, 113–114
- Molecular weight, 52
- Moisture pickup, 42
- Mold release, 43
- OSHA, 477–478
- Optical brighteners, 149
- Organic pigments, 148–149
- Organophosphites, 116–118
- Organosols, 375
- Organotin stabilizers, 92–106
- Physical property measurement, 445–450
- Phosphate esters, 289–295
- Plasticization, 175–177
- Plasticizers
 - citrate, 268–273
 - general purpose, 182–186
 - halogenated, 299
 - low temperature, 189–192
 - low volatility, 193–197
 - polyester, 256–276
 - secondary, 201–203
 - solvating, 186–189
- Plastisol characteristics, 371–373
- Plastisol dip coating, 499–500
- Plastisol foams, 383–388
- Plastisol formulation, 217–220, 269–270
- Plastisol preparation, 375
- Plastisol rotational molding, 501
- Plastisol slush molding, 500
- Plastisol test methods, 461–462
- Plateout, 43
- Powder coating, 491–497
 - fluidized bed, 495
 - spray coating, 496–497
- Powder slush molding, 498
- Processing aids, 315–319, 505
- PVC latex, 57–64
 - compounding, 59–61, 434–440
 - formulation, 61–63
 - processing, 63–64
- PVC grades, 52–54
- PVC biodegradation, 127–132
- PVC blends
 - ABS, 401
 - CPE, 400
 - EVA, 399
 - NBR, 394–398
 - polyurethane, 401–402
- Regulatory agencies, 468
- Release agents, 349–350
- Resin selection, 15–54
 - for plastisols, 40–43
 - effect on flexible PVC processing, 21–22
 - effect on flexible PVC properties, 19–20
 - effect on plastisol processing, 24–25
 - effect on plastisol properties, 24
 - effect on rigid PVC processing, 22, 504
 - effect on rigid PVC properties, 23–24
- Rheology control, 373–375
- Rigid film and sheet, 38, 346–347
- Rigid foam, 37, 387–388
 - wood composites, 419–420
- Rigid molding, 39, 344–345
- Rigid pipe, 33–35, 342–344
 - foamcore, 387
- Rigid PVC extrusion, 503–513
- Rigid profiles, 345–346
- Silkscreen ink, 256
- Smoke suppression, 414
- Solution PVC, 65–70
 - formulation, 69–70

- Specific gravity
 - of ingredients, 9–11
- Structure of PVC, 17

- Talc, 162–163
- Thermal stability, 440–443
- Thermoforming, 40
- Titanium dioxide, 141–142

- Ultraviolet light stabilizers, 123–126

- Vinyl flooring, 43, 214–217, 252–254, 386–387

- Vinyl leather, 254–256
- Vinyl siding, 36–37
- Vinyl tile, 28–29
- Vinyl wall coverings, 387

- Wollastonite, 167–168
- Wire and cable, 25–26, 109–112, 203–209, 348–349
- Wood fiber composites,
 - 415–430
 - properties of, 427–430
- Wood fiber, types of,
 - 426–427

