### Subject Index

#### A
- Acrylic acid copolymers, 129
- Adhesion, 340
- Aggregate-binder mixtures, 77
- Airfields, binders for, 340
- AR1000, 50
- AR-2000, 77
- Asphalt
  - hot mix, 50, 151, 234
  - mastic, 35
  - porous, 35
  - rubberized, 223
- Asphalt concrete, 35, 130, 151, 173, 186
  - liners, 329
  - modifiers, 77
  - moisture effect on, 97
  - overlay design, 308
  - polymer modified, 329
  - stabilization, 1
- ASTM standards
  - D 2171: 253
  - D 4867: 97
- Atactic polypropylene, 35

#### B
- Bitumens, modified, 35, 223, 234, 243
- Block copolymers, 97

#### C
- Chromatography, size exclusion, 243
- Cohesion, binder, 280, 340
- Compaction, 77
  - technique, 97
  - temperature, 97, 129
- Conferences
  - Pacific Coast, on Asphalt
  - Specifications, 151
- Covers, solid waste storage, 329
- Cracking, 61, 151, 173, 234
  - reflective, 308
  - resistance, 1
- Creep, 186, 308

#### D
- Deflection measurements, 203
- Deflection resistance, 61
- Deformation resistance, 61, 77, 151, 173, 186
- Degradation, 243
- Dry wheel tracking test, 234

#### E
- Elastic recovery, 340
- Elastomers, 97
- Emulsions, 280
  - instability, 1
  - residue, 20
  - stability, 1
- Ethylene-based polymer, 97
- Ethylene-vinyl acetate, 35, 151, 253, 340

#### F
- Failure envelope, 61
- Fatigue, 308
- Fatigue cracking, 151
- Fatigue life, flexural, 340
- Field tests, binders
  - comparison with laboratory tests, 97, 129
- Kentucky, 173
- Oregon, 151
- Saudi Arabia, 203
- Filtration, rubber determination, 223
- Flexibility, 223
- Friction course/whisper asphalt, 234

#### G
- Granite, Watsonville, 77
**I**

Infrared absorption spectroscopy, 35

**K**

K4460, 77
Kentucky Department of Highways, 173

**L**

Latex modifiers, 129
Liners, solid waste storage, 329
Loading, 173, 186
tests, 61, 77, 308

**M**

Marshall stability, 97
Mechanical analysis, dynamic, 20
Microfil 8, 77
Moisture sensitivity
D 4867: 97

**N**

Neoprene, 253
Noise levels, 223
Nomographs, 20
Novophalt, 186, 203

**O**

Octahedral shear strength, 186
Oregon Department of Transportation, 151

**P**

Penetration sensitivity, 340
Penetration test, 20, 308, 340
Permeability, liner system, 329
Phase separation, 1
Plastic strains, 77
Polybutadiene, hydroxylterminated, 340
Polyethylene, 1, 329, 340
low density, 186
Polyolefin, 1, 129
Polypropylene

atactic, 35
wax, 340

**R**

Relaxation moduli, 61
Resilience modulus, 97, 129
Rheology, 20, 50, 61, 77, 234, 280, 308
Roughness, 203
Rubber bitumen, 223
Rubberized asphalt, 223
Rutting resistance, 1, 50, 77, 173, 203, 308

**S**

Saudi Arabia, modified binder field trials, 203
Seal coat, 20
Shear strength, 186
Size exclusion chromatography, 243
Skidding resistance, 223
Softening point, 20
Solid waste liners, 329
Spectroscopy, infrared absorption, 35
Stability, 1, 61, 97, 340
Stabilization mechanisms, 1
Standards
D 2171: 253
D 4867: 97
performance, 151
Steel plate deck pavement, 61
Stiffness tests, 20, 77, 97, 129, 340
Strain analyses, 186
Stress intensity factor, 308
Stress relaxation, 61
Styrelf, 203
Styrene block polymer, 97
Styrene-butadiene, 151, 253
Styrene-butadiene rubber, 129, 151, 253
Styrene-butadiene-styrene copolymer, 35, 243, 253, 280, 308, 340
Styrene-ethylene-butene-styrene, 243
Surface treatment, 20, 61, 223, 280, 308
tumens for, 35

T

Tensile strength, 1, 280, 340
Tensile test, 308
Thermal cracking, 61, 151, 173
Thermo-oxidative degradation, 243
Tires, recycled rubber in asphalt, 223
Toughness, 280
Tracking, wheel test, 50, 61, 234

V

Van der Poel's nomograph, 20
Viscoelasticity, 308
Viscosity, 253, 280, 308
temperature and, 97

W

Water damage resistance, 97
Water drainage, 223
Wheel tracking, 50, 61
dry, 234