

Subject Index

A

Adhesives, 3
Adsorption capacity, 139
ASTM standards, 240
 D 2216, 23
 D 5321, 89

B

Barrier layers, 139
Bearing capacity, 251
Bonding, 3

C

Calcium, 139, 162
California Bearing Ratio
 penetration test, 251
Cation exchange capacity, 162
Compatibility, 139, 181
Composite lining system, 71
Concrete, 150
Conditioning procedure, 45
Conformance testing, 23, 71,
 240
Cover stability, 30
Creep, 103
 shear characteristics, 89
Cutting, 45

D

Degradation, 139
Displacement curves, 103
Displacement rate, 251

E

Effective stress, 208

F

Flow box, 196
Force-displacement relationship,
 251
Freeze-thaw, 196
Friction, 89

G

Geosynthetic Research
 Institute, 23

H

Heat burnishing, 3, 229
High density polyethylene, 71,
 229
Hydration, 55, 121, 150, 181,
 251
Hydraulic barrier
 characterization, 55
Hydraulic compatibility, 150
Hydraulic conductivity, 45, 139,
 162, 196, 208
Hydraulic properties, 240

I

Interaction, 181
Interface, 121
 friction, 71
 shear tests, 55
Inundation method, 55
Ion exchange, 162

L

Leachates
 alkaline, 139
 permeability, 181
Loading, 89, 103, 121, 251

M

Magnesium, 162
Mechanical properties, 240

268 GEOSYNTHETIC CLAY LINERS

Mineral oil, 150

Moisture content, 23

Mold diameter, 251

N

Needle punched liners, 3, 181,
229

hydrated, 121

shear tests, 55, 89, 103

single, 45

swell pressure, 30

O

Oedopermeameter, 181

P

Penetration test, 251

Permeability, 139, 181, 196

Permeameter, flexible wall, 45,
196, 208

Potassium, 162

Precipitation volume, 150

Q

Quality control testing, 3, 139,
240

Geosynthetic Research
Institute, 23

R

Recovery basins, 150

S

Sample preparation methodology,
45

Seismicity, 71

Shear

creep, 89

creep shear test, 103

direct, 89

interface, 55

internal, 121

strength, 89, 103, 121, 229

strength, internal, 71

testing, 30

Slope, 229

stability, 30, 71

Stability analysis, 71

Stitch bonding, 3, 55

Strength

internal shear, 121

shear, 89, 103, 121

Stress, effective, 208

Surcharge pressure, 251

Swell, 23, 139, 181, 240

oedometer, 55

pressure, 30

T

Thermally locked fibers, 89

Time-displacement curves, 103

Transformers, 150

Trimming, 45

W

Wetting, 208