Effects of Sterilization and 1-, 3-, 5-, 7- & 10-Year Accelerated Aging on Material Tensile Strength (MD) for 1059B

Transition Protocol material performance is equivalent to, or better than, current Tyvek®.
Effects of Sterilization and 1-, 3-, 5-, 7- & 10-Year Accelerated Aging on Material Tensile Strength (CD) for 1059B

Transition Protocol material performance is equivalent to, or better than, current Tyvek®.
Effects of Sterilization and 1-, 3-, 5-, 7- & 10-Year Accelerated Aging on Material Elongation (MD) for 1059B

Pre-Sterilization

Vapor Hydrogen Peroxide

Ethylene Oxide (EO)

Gamma @ 25 kGy

Gamma @ 50 kGy

Gamma @ 100 kGy

Gamma @ 100 kGy

gamma @ 50 kGy

Electron-beam @ 100 kGy

Electron-beam @ 50 kGy

Steam

Transition Protocol Material 10-Year Accelerated Aging

Control 10-Year Accelerated Aging

Transition Protocol Material 7-Year Accelerated Aging

Control 7-Year Accelerated Aging

Transition Protocol Material 5-Year Accelerated Aging

Control 5-Year Accelerated Aging

Transition Protocol Material 3-Year Accelerated Aging

Control 3-Year Accelerated Aging

Transition Protocol Material 1-Year Accelerated Aging

Control 1-Year Accelerated Aging

Transition Protocol Material 0-Year

Control 0-Year

ASTM D5034
Control = DuPont® Tyvek® 1059B
Center point = 0%
Outer point = 30%
MD = Machine Direction

Transition Protocol material performance is equivalent to, or better than, current Tyvek®.
Effects of Sterilization and 1-, 3-, 5-, 7- & 10-Year Accelerated Aging on Material Elongation (CD) for 1059B

Transition Protocol material performance is equivalent to, or better than, current Tyvek®.
Effects of Sterilization and 1-, 3-, 5-, 7- & 10-Year Accelerated Aging on Material Puncture Strength for 1059B

- Pre-Sterilization
- Ethylene Oxide (EO)
- Gamma  @ 25 kGy
- Gamma  @ 50 kGy
- Gamma  @ 100 kGy
- Electron-beam  @ 25 kGy
- Electron-beam  @ 50 kGy
- Electron-beam  @ 100 kGy
- Vapor Hydrogen Peroxide
- STERRAD® 100S
- Steam

Transition Protocol material performance is equivalent to, or better than, current Tyvek®.