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

ASTM D5034
Control = DuPont® Tyvek® 1059B
Center point = 0 lb f/4 in.
Outer point = 150 lb f/4 in.
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 Tensile Strength (CD) for 1059B

ASTM D5034
Control = DuPont® Tyvek® 1059B
Center point = 0 lbf/4 in.
Outer point = 150 lbf/4 in.
CD = Cross 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 (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 Elongation (CD) for 1059B

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

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

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

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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®.