

Natural Materials Quick Reference



Antimicrobial (Protected) (AG)

Lot Traceable

RoHS Compliant

Antimicrobial protected Ag fittings are available in Nylon, Kynar®, Polypropylene and HDPE. These fittings incorporate natural silver ion protection to guard against microbial colonization and biofilm formation on their surfaces. Kynar® Ag fittings (AGNK) are **autoclavable**.



Animal Derivative Free



Natural Kynar® (NK)

USP CLASS VI

Lot Traceable

RoHS Compliant

Temperature Range -80 °F to 226 °F • Pressure 260 psi @ 70 °F. NK material can be **autoclaved to 285 °F** (140 °C) and meets **USP Class VI** requirements. Generally, chemically resistant to: most acids, salts, weak bases, halogenated solvents, alcohols, nuclear and UV radiation, oxidants, ozone and deionized water.



Animal Derivative Free



CrystalVu™ (CVU)

USP CLASS VI

Lot Traceable

RoHS Compliant

CrystaVu™ (polyolefin): A clear transparent alternative to polycarbonate containing no Bisphenol-A (BPA) - will not deform at temperatures to 180 °C (356 °F). **Autoclavable** - enhanced characteristics compared with polycarbonate include: superior chemical resistance; no crazing with multiple autoclave cycles plus gamma and EtO Sterilization compatibility - **USP Class VI**, EU 2002/72/EC.



High Density Polyethylene (HDPE)

Lot Traceable

RoHS Compliant

HDPE complies with FDA 21 CFR 177.1520 when used unmodified for the manufacture of food contact articles. HDPE has various applications for use in medical products and devices. It has excellent resistance to chemicals, but exhibits lower thermal resistance than other materials. It is a softer material than nylon or polypropylene and much softer than Kynar®.



Nylon - Natural (NN) Medical (MN)

Lot Traceable

RoHS Compliant

Temperature Range -50 °F to 275 °F (135 °C) • Pressure 125 psi @ 70 °F
6/6 Nylons exhibit good tensile strength, moderate stiffness and high impact resistance. They're resistant to fuels, lubricants and many chemicals, but vulnerable to attack by phenols, strong acids and oxidizing agents. MN White Medical Nylon is made from the same resin as Natural Nylon, but has an FDA compliant white colorant added.

Animal Derivative Free



ADF Polypropylene (PP)

USP CLASS VI

Lot Traceable

RoHS Compliant

A polypropylene formulated for biomedical and bioprocess applications. Temperature Range -9 °F to 150°F (66 °C) • Pressure 125 psi @ 70 °F. Meets FDA requirements 21 CFR 177.1520(a)(3)(i) and (c)3.1a. PP material has a Drug Master File listing. It is radiation stable and is resistant to solvents, chemicals, water and other inorganic environments. It resists most strong mineral acids and bases; however, it is subject to attack by oxidizing agents.

Lot Traceability Material Certificates are available for products made from resins listed on this page. Please request certificates at the time an order is placed.