

ASAHI/AMERICA, INC.

PolyPure™
High Purity Natural
Polypropylene



High Purity Natural
Polypropylene

Fusion Technology

EM Technik Tube
System

Gooseneck Faucets



Cost Effective Purity

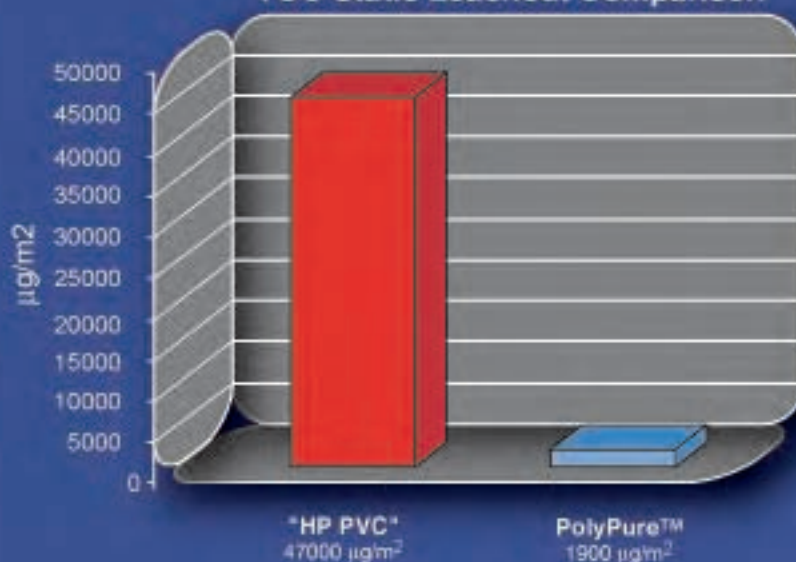


The Pure Difference:

Using industry standard test methods, PolyPure™ was compared to "high purity" PVC to determine static leach out properties of TOC in a Seven-Day Static Test.

Balazs Analytical Laboratory (work order 00-05321-03) tested 1" HP PVC and 32mm PolyPure™ sized welded pipe samples. Samples were prepared in a Class 1000 Cleanroom and were rinsed with DI water prior to testing. The "high purity" PVC sample weld used "UPW" grade solvent. Test results are found to the right.

TOC Static Leachout Comparison



PolyPure™ Natural Polypropylene,

Asahi/America, The Wet Process People™

Asahi/America, Inc. has been supplying quality, high purity, performance polymers for over twenty years. Asahi/America pioneered the use of thermoplastics for stringent high purity applications. Our dedication to excellence is evident in the company's expertise, product quality and total systems support.

PolyPure™ Cost Effective Purity

PolyPure™ Natural Polypropylene Systems provide excellent high purity performance and cost effective installation. PolyPure™ Systems are specified and installed with confidence for a variety of high purity applications including USP Purified Water, Institutional Laboratory, Deionized Water and RO Water Systems.

Supply Range

PolyPure™ Systems offer a wide selection of pipe, fittings and valves for your high purity processing requirements:

Pipe and Fittings

- IR / Contact Butt Fusion: 20 - 110mm (1/2" - 4") SDR11, PN10/150PSI
- Socket Fusion: 20 - 90mm (1/2" - 3") SDR11, PN10/150PSI
- Wide variety of sanitary and specialty fittings
- Consistent pressure rating across all size ranges

Valves

- T-342 Diaphragm Valves, 20 - 63mm (1/2" - 2") Spigot/Butt or Flanged
- T-343 T-Style Zero Deadleg Valves, Various Sizes 20mm - 63mm (1/2" - 2")
- Ball Valves, Socket, Butt or Threaded True Union Ends, 20 - 63mm (1/2" - 2")



Resin

PolyPure™ Systems use a virgin, natural random copolymer polypropylene resin (PPr) for its pipe, fittings and valves. The PPr resin complies with all requirements outlined for a random copolymer resin according to ASTM D 4101-96a and DIN 16774. In addition, PolyPure resin is approved for contact with foodstuff as per the FDA CFR, Title 1 (2001) 177.1520. Other benefits include:

- PPr has higher modulus of elasticity than homopolymer (PPh) providing less brittle systems
- PPr provides excellent purity performance when analyzed for leachates according to industry standard testing
- PPr fittings and valves are less prone to the formation of voids than PPh during the molding process, providing higher mechanical reliability
- PPr systems provide a high degree of reliability when thermally joined via IR fusion, butt fusion or socket fusion welding techniques

Cost Effective Purity

The Wet Process People™



Production

PolyPure™ Systems are most distinguished by its unique production method. No other system provides the dedication to high purity production, cleaning and packaging as PolyPure™ Systems do. This dedication in production results in cleaner systems with quicker system commissioning and validation.

- Fittings and T342/T343 diaphragm valves molding in class 100 cleanroom
- Pipe produced on dedicated equipment in clean area, immediately capped and bagged after production
- All fittings and T342/343 diaphragm valves individually bagged in tear resistant PE film
- Each piece lot numbered and dated for performance traceability
- All fittings and diaphragm valves post-molding rinsed in hot UPW

UPW Specification:

- UPW Temperature greater than 70°C
- TOC less than 10 ppb, Resistivity > 18 MegOhm
- Wash process for over 60 minutes



ASAHI/AMERICA, Inc.
Rev. PP/06

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Fusion Technology

PolyPure™ Systems are joined by the latest technology in IR fusion. The SP-110 Series of Automated IR Welders provide unmatched quality, repeatability and ease of operation.

- 20 - 110mm (1/2" - 4") size range
- Touch screen operation
- Computer control and monitoring of critical welding parameters of heat, time and joining force
- Electronic storage and data retrieval of welding history

PolyPure™ Systems can also be joined by conventional contact butt fusion up through 110mm (4") and socket fusion through 90mm (3").



Specialty Fittings

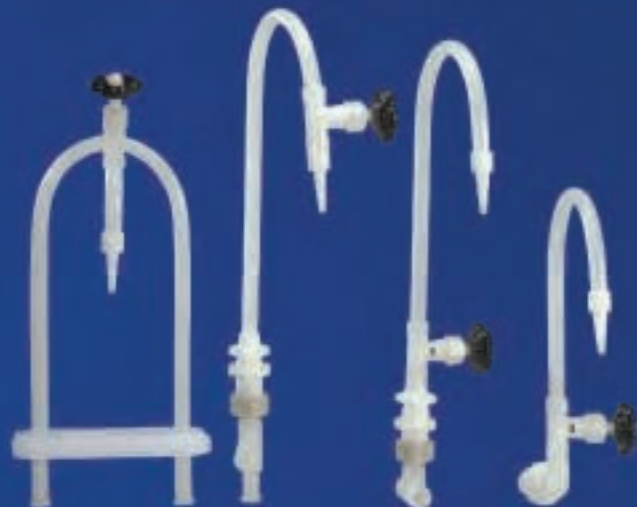
PolyPure™ systems are complimented by a range of specialty fittings for interconnectivity to other Sanitary and Tube systems.

- A complete line of molded flare fittings transition PolyPure™ to flexible tube systems in sizes 1/4" - 1"
- Sanitary Ferrules are available for use as inter-system mechanical fittings or connection/transitioning to sanitary components. Available ferrule sizes range from 3/4" to 2-1/2". Please consult factory for exact transition details.

Faucets

Asahi America's high-purity gooseneck faucets are crafted from the same resin and quality materials as PolyPure™ pipe and fittings. Care is taken in the design and selection of components in order to supply the highest quality and performance. Some of the common features include:

- Quick-opening Globe Valve
- Class 1000 Cleaning and Packaging
- Compatible Resins with Piping System
- Fully Fused Components; No Wetted Threads in Body or Base Construction
- Faucets are also available in high purity Pura d® PVDF



Flexible Tube Systems

EM Technik tubing components provide a comprehensive offering for transitioning from Pura d™ rigid pipe to flexible tube.

Materials of Construction: PFA, PVDF, PP and PPh
Connection Principles: Flare, Compression
Configurations: Unions, 90's, Quick Connects, Tee's, Threaded Adapter
Size Range: 1/8" to 1", 4mm to 32mm



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