

# AdvantaSil™ APSPG-MAX

## SILICONE PUMP GRADE - MAXIMUM LIFE

Pharma & Biopharmaceutical Applications

PRODUCT DATASHEET



**AdvantaSil™ APSPG-MAX Silicone Pump Grade – Maximum Life** tubing is the highest performing platinum-cured silicone tubing in our portfolio and is specifically designed with an extended pump life, up to 3x a typical silicone pump tube, for critical pharmaceutical and biopharmaceutical applications.


This high-purity tubing offers improved pump life over general silicone. Its advanced formulation ensures low spallation and superior durability, making APSPG-MAX the optimal choice for applications that require exceptional reliability and safety with extended pump hours.

AdvantaPURE™


## KEY FEATURES & BENEFITS

- Translucent for fluid flow visibility
  - Improved pump life over general silicone
  - Low spallation though pump life
  - General temperature range -50°F to 400°F (-45°C to 204.4°C)
- Custom lengths, sizes and packaging available
  - Extruded and packaged in an ISO Class 7 cleanroom
  - Available with leak-proof overmolded connections
  - Manufactured with a focus on [sustainability](#)


## TYPICAL APPLICATIONS




Extended pump life




Bioreactor feeding




Separation and purification




Liquid dispensing



Sample transfer



Final fill



Perfusion and continuous processes

## PHYSICAL PROPERTIES

	ASTM Method	Value
Durometer, Shore A	D2240	65
Specific Gravity	D792	1.16
Ultimate Tensile, psi	D412	1300
Ultimate Elongation, %	D412	350
Tensile Modulus @100%, psi	D412	375
Tear Strength, Die B, ppi	D624	120
Compression Set, %	D395B	31

## COMPLIANT OR TESTED TO

- Extractables/Leachables
  - USP <87> Cytotoxicity MEM Elution
  - USP <88> Class VI
  - USP <85> Bacterial Endotoxin
  - European Pharmacopeia 3.1.9
  - ISO 10993-3 (Ames Genotoxicity)
  - RoHS Compliant
  - ADCF Compliant
- [Review the Regulatory Overview chart](#)

## CHEMICAL COMPATIBILITY

Acids, Dilute / Weak	Test Before Using
Acids, Strong / Concentrated	Test Before Using
Bases, Dilute / Weak	Acceptable
Bases, Strong / Concentrated	Test Before Using
Salts	Acceptable
High Purity Water	Test Before Using
Oil/Water Emulsion	Test Before Using
Alcohol	Test Before Using
Organic Solvent	Test Before Using

## STERILITY

Available with validated sterility assurance of 10<sup>-6</sup> via gamma irradiation per ISO 11137 method VDmax 25.

## STERILIZATION METHODS

Autoclave	One-time cycle at 121°C, 30 min
Gamma Irradiation	One-time up to 40 kGy

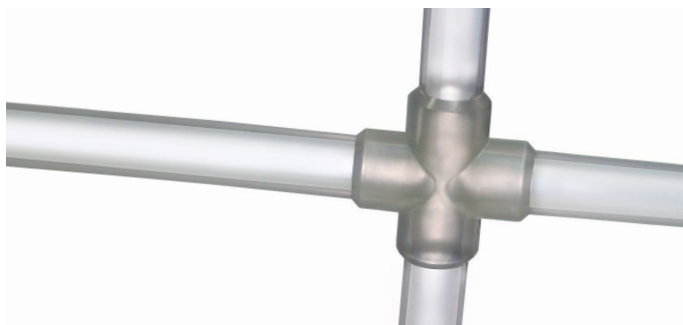
## PRODUCT SPECIFICATIONS

Part Number	I.D.		Wall		O.D.		Standard Length Available
	in	mm	in	mm	in	mm	
A7080013-25	0.031	0.79	0.063	1.59	0.156	3.97	25
A7080020-25	0.063	1.59	0.063	1.59	0.188	4.76	25
A7080027-50	0.125	3.18	0.063	1.59	0.250	6.35	50
A7080034-50	0.188	4.76	0.063	1.59	0.313	7.94	50
A7080041-50	0.250	6.35	0.063	1.59	0.375	9.52	50
A7080048-50	0.250	6.35	0.094	2.38	0.438	11.11	50
A7080055-50	0.250	6.35	0.125	3.18	0.500	12.70	50
A7080062-50	0.313	7.94	0.094	2.38	0.500	12.70	50
A7080069-50	0.375	9.52	0.094	2.38	0.563	14.29	50
A7080076-50	0.375	9.52	0.125	3.18	0.625	15.88	50
A7080090-50	0.500	12.70	0.125	3.18	0.750	19.05	50

**NOTE:** Not all standard part numbers are stocked items. For the up-to-date list of stocked sizes and lengths available, please contact your sales representative.

Non-listed sizes and custom lengths are available by special order. Coils are supplied double bagged in heat-sealed polybags and bulk packed. Contact your AdvantaPure sales representative for other packaging options.

**NOTE:** The data listed throughout this datasheet is meant only as a guide to aid in the design and is believed to be reliable; however, nothing stated shall constitute a guarantee or warranty for any application. Product field testing should be performed to find the actual values for a specific application.



### Overmolding - Connections and Assemblies

AdvantaSil APSPG-MAX sizes can be integrated into our assemblies and manifolds. Choose from standard available wyes, tees, sanitary ends, crosses, and reducers, or opt for our custom overmolding design services to create custom pieces for your unique application.



### Molded Tubing Ends

Ideal for aseptic transfer and processing, overmolded with multi-port sanitary clamp and ends to form a smooth fluid path.



### Tubing Kits

Built-to-order in an ISO Class 7 cleanroom, assembled with various components for convenience and efficiency.



### Sterile Bottle Assemblies

Provide a ready-to-use, cost-effective solution for aseptic sampling, cell growth, and filling applications. The robust molded BioClosure™ is designed for storage and containment.



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To learn more about AdvantaPure  
and what solutions we offer visit:

[AdvantaPure.com](https://AdvantaPure.com)

The AdvantaPure line of fluid transfer systems for the biopharma and pharmaceutical market are a line of the NewAge Industries family of products and services.

**WARRANTY:** Products of NewAge Industries, Inc.™ the parent company of the AdvantaPure™ division are warranted to be free from defects in material and workmanship. Any product found to carry such defects will be replaced without charge. This warranty is limited only to the replacement of AdvantaPure products, item for item, which after examination by AdvantaPure are deemed defective. The AdvantaPure division specifically disclaims any other liability. The data supplied is provided as a helpful guideline and is believed to be reliable; however, nothing stated shall constitute a guarantee, recommendation, or warranty for any application.

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