



**PROCESSGARD® NP CARTRIDGE
AND DISPOSABLE FILTERS**

Depth filters with high flow and excellent broad range retention efficiency, ideal for flat panel display prefiltering applications or electronics parts plating processes



high flow and excellent broad range retention efficiency

Overview

ProcessGard® NP cartridge filters are multi-layered depth filters with a non-woven polypropylene membrane. Suitable applications include prefiltering for flat panel display wet processing or electronic parts plating processes.

Superior Retention Efficiency

ProcessGard NP filters retain contaminants by means of a multi-stage, graded-density design. A full range of retention ratings with high retention efficiency allows you to optimize for your specific process stream.

Superior Chemical Compatibility

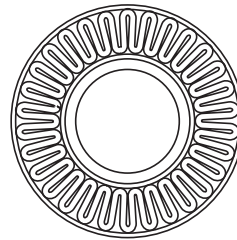
ProcessGard NP filters are constructed of durable polypropylene and offer excellent chemical and heat resistance. Polypropylene, glass fibers and polyester are used for 0.5 µm and 1.0 µm filters.

Superior Manufacturing

- Manufactured in a world-class, ISO 9001 Quality Systems Standard facility
- Manufactured, tested and packaged in a cleanroom to ensure product cleanliness
- Each filter is 100% integrity tested prior to shipment

Applications

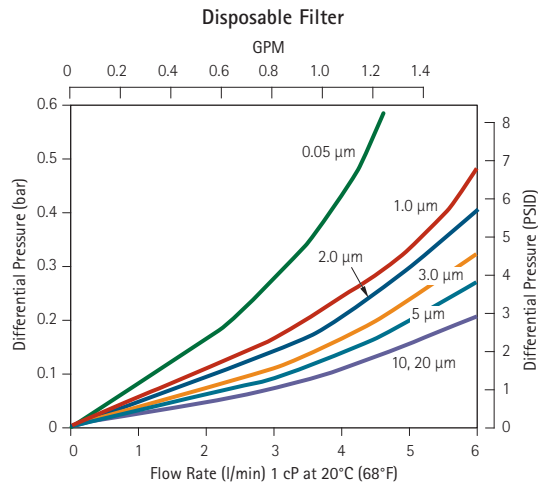
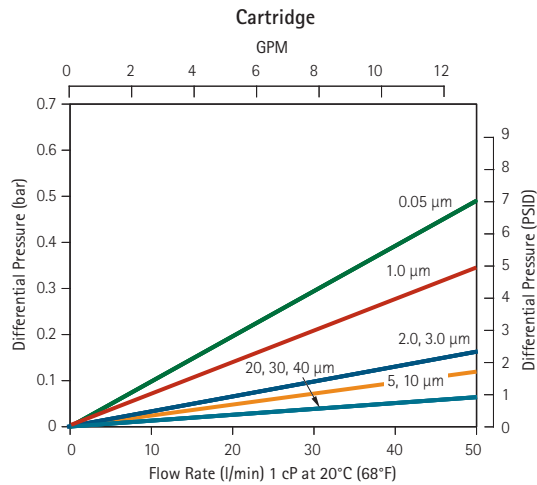
- Thin-film transistor LCD: wet etching, stripping, developer and cleaning
- Twisted pneumatic/Super twisted pneumatic LCDs: wet etching, stripping, developer and cleaning
- Color filter: wet etching, developer, stripping and cleaning



Pleated depth filter for longer life and higher flow rates.

Features	Benefits
Surface and depth filter design	Delivers superior particle and gel holding capability Ensures longer life over non-depth filters
Strong construction of polypropylene supports	Polypropylene supports provide clean and durable performance
Thermoplastic bonding with no adhesives	No extractables, ensure superior downstream cleanliness
Available in a range of retention ratings, lengths and manifold adapter codes	Superior retention of colloids and particles ensuring low particle counts to protect your process
Available in various configurations	Fits most available housings

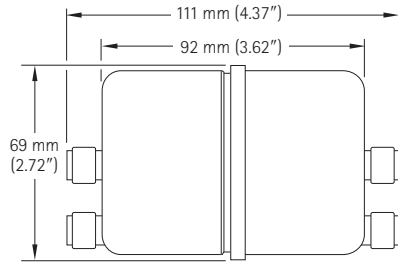
Performance Data



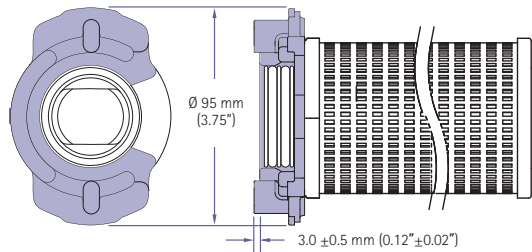
Specifications

Materials:	Membrane	Polypropylene (All 0.5 μm and 1.0 μm filters have some glass fibers and polyester included)
	Supports	Polypropylene supports, cage, core and sleeves and end caps
	Cartridges	O-rings: Ethylene propylene (EPDM), FKM, and encapsulated-FKM Gasket: Ethylene propylene (EPDM) and FKM
Cartridge dimensions:	Cartridge diameter	70 mm
	Code O (2-222) 10"	261.5 mm
	Code O (2-222) 20"	514 mm
	Code F (gaskets) 10"	250 mm
	Code F (gaskets) 20"	500 mm
Disposable connections:	6.35 mm compression seals compatible with Swagelok® fittings	
Cartridge maximum operating conditions:	Maximum differential pressure	0.5 MPa (5.0 bar, 70 PSID) @ 25°C (77°F)
	Maximum operating temperature	0.5 μm and 1.0 μm at ambient temperature; all others @ 80°C (176°F)
Disposable maximum operating conditions:	Maximum inlet pressure	0.27 MPa (2.7 bar, 40 PSID) @ 25°C (77°F)
	Maximum operating temperature	38°C (100°F)

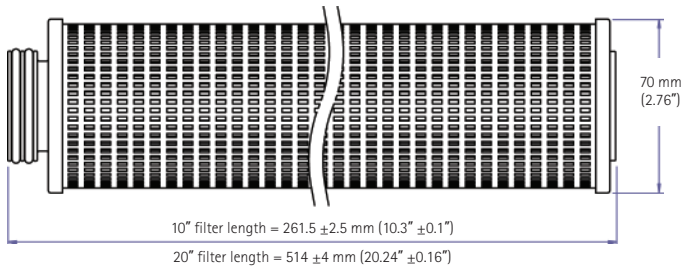
Dimensions



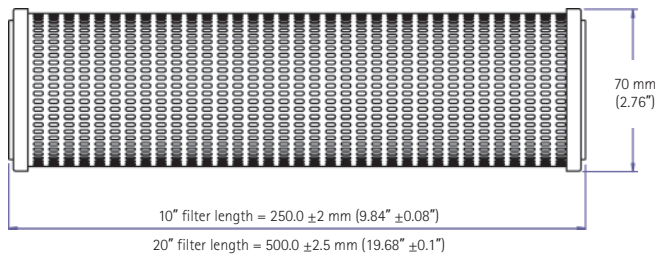
End View of Chemlock® Key on Cartridge



Code 0



Code F



For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select the "Customer Service" link for the center nearest you.

Ordering Information

ProcessGard NP Cartridges

Part Number*

PN - XX - X - XX - X - 1 - Y

Optional Additional Digit
Y = With Chemlock® Key PP

O-ring

V = FKM
E = EPDM
T = Encapsulated - FKM

Length

10 = 10"
20 = 20"

Type

F = Flat gasket
O = O-ring code 0 (2-222)

Retention Rating

A5 = 0.5 μm 30 = 3.0 μm 2H = 20 μm
10 = 1.0 μm 50 = 5.0 μm 3H = 30 μm
20 = 2.0 μm 1H = 10 μm 4H = 40 μm

*Please ask Entegris for available parts number

Disposable Filters

Part Number

PN - XX - 0S1S3

Delivered 3 Pack

Retention Rating

A5 = 0.5 μm 30 = 3.0 μm 1H = 10 μm
10 = 1.0 μm 50 = 5.0 μm 2H = 20 μm
20 = 2.0 μm

Disposable Accessories

Part Number	Description
CW00 0S4 AV	Air vent set
CW00 0S4 20	Adapter set for inlet/outlet for connection with non-metal compression fittings

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