

FLOW VS PRESSURE DROP*

The specific pressure drop values (psi/gpm) per 10” cartridge are provided for each filter grade. Porex Radial Cartridges exhibit superior flow characteristics to other cartridges with comparable micron ratings. The benefits of lower pressure drop are longer cartridge life, higher throughput and lower overall cost.

*Based on cumulative data supplied by an independent laboratory. Flow rates are based on the media and may be limited by the core of the cartridge or the cartridge housing.

POREX Radial Cartridge Filter Removal Ratings							
	Part No.	Filter Media	Micron Rating High Performance	GPM/ PSID	l/min/ kPa	PSID GPM/	kPa/l/ min
2.65 inch Diameter	CRE005	UHMWPE	5	3.8	2.09	0.26	0.47
	CRE010	UHMWPE	10	4.6	2.53	0.22	0.41
	CRE020	UHMWPE	20	14.6	8.02	0.07	0.13
	CRE050	HDPE	50	20.4	11.2	0.05	0.09
4.5 inch Diameter	CRE005	UHMWPE	5	8.3	4.56	0.12	0.22
	CRE010	UHMWPE	10	10.1	5.55	0.10	0.18
	CRE020	UHMWPE	20	31.7	17.40	0.03	0.06
	CRE050	HDPE	50	44.4	24.38	0.02	0.04
6.1 inch Diameter	CRE005	UHMWPE	5	14.4	7.91	0.07	0.13
	CRE010	UHMWPE	10	17.7	9.72	0.06	0.11
	CRE020	UHMWPE	20	55.7	30.58	0.02	0.04
	CRE050	HDPE	50	78.0	42.82	0.013	0.02

OPERATING PARAMETERS

All Porex Radial Cartridge Filters are available in multiple end configurations to fit standard and commercial housings.

Parameter	Description
Media	HDPE (High-Density Polyethylene), UHMWPE (Ultra-High Molecular Weight Polyethylene)
Cage/Core	Polypropylene
Endcaps	Polyurethane or Polypropylene
Outside Diameter	2.65" (6.7 cm) 4.5" (11.4 cm) 6.1" (15.5 cm)
Inside Diameter	1.0" (2.5 cm) on 2.65" (6.7 cm) 1.0" (2.5 cm) on 4.5" (11.4 cm) 2.0" (5.1 cm) on 6.1" (15.5 cm)
Maximum Operating Temperature	80°C (176°F)
Pressure Rating	Forward 50 psid - 2.65" 35 psid - 4.5" and 6.1" in diameter
Effective Surface Area (10" Pleated Length)	1.7 ft2 (.16 m2) per 2.65" (6.7 cm) 3.7 ft2 (.35 m2) per 4.5" (11.4 cm) 6.5 ft2 (.62 m2) per 6.1" (15.5 cm)



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Support Worldwide

As a global leader in porous polymer technology, Porex is committed to quality, innovation, and customer satisfaction. Porex owns and operates manufacturing facilities in Europe, Asia, and North America — providing both standard and custom components to our customers through a global network of sales engineers, agents and distributors. Porex has attained ISO 9001 Certification at the USA, Germany and Malaysia operations. With an experienced engineering support staff and global distribution capabilities, Porex brings innovative solutions to the filtration marketplace.

FDA and NSF Approved

The majority of the raw materials used in the production of Porex Radial Cartridge Filters have been certified by their raw material suppliers as meeting FDA requirements in the Code of Federal Registration, 21 CFR 177.1520, for food contact, including cooking applications. Many components have been used in liquid filtration devices that carry NSF certification. In applications requiring NSF approval, Porex will work in conjunction with the NSF to help guide a product through the NSF application certification process.

Technology Leader

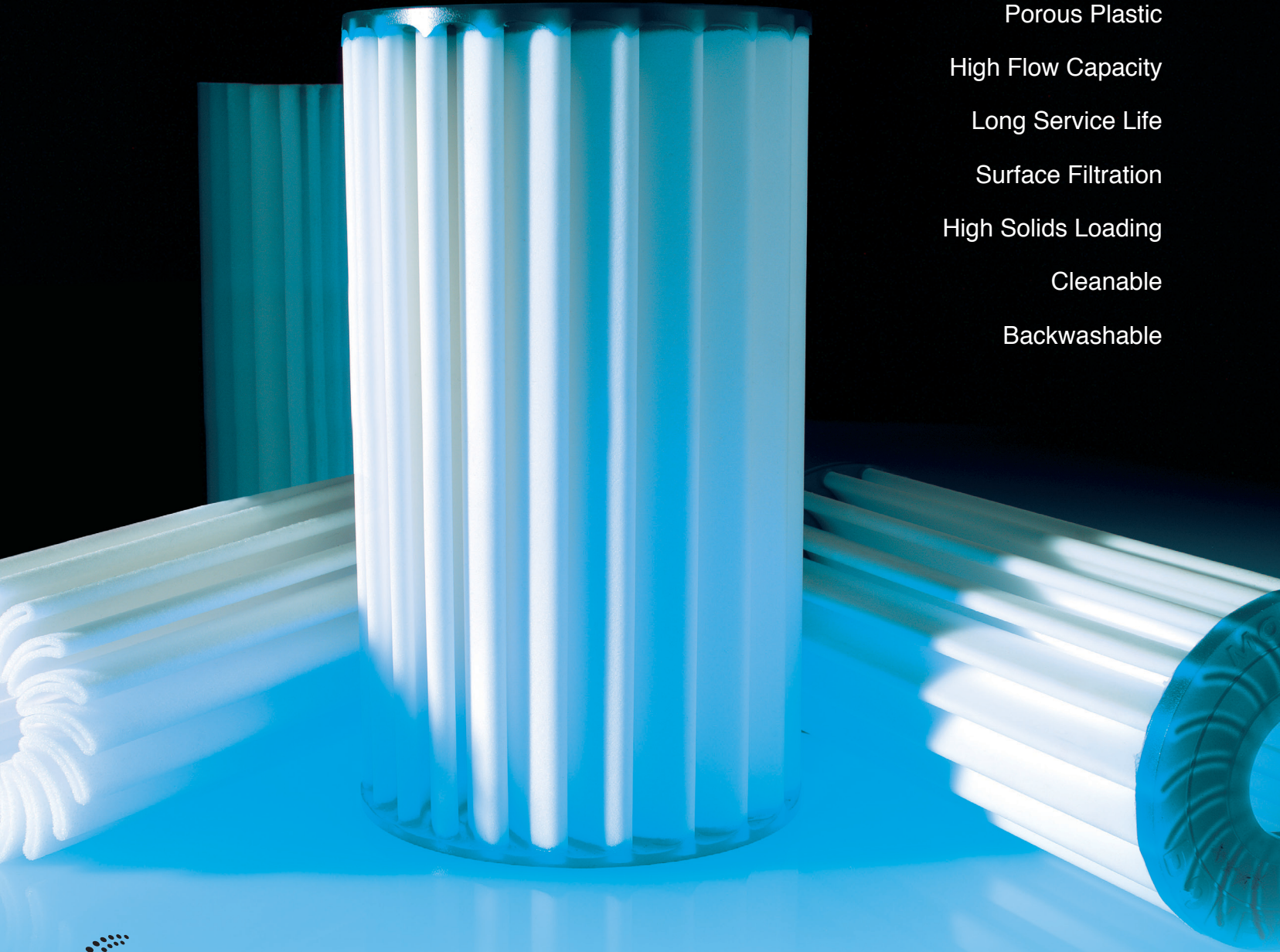
Porex is all about innovation! For over 50 years Porex has been a leader in the development and manufacture of porous polymer technologies. Our innovative manufacturing processes include high-volume production and state-of-the art tooling, coupled with an advanced polymer laboratory and extensive material science expertise. This ensures timely, optimal solutions for a variety of applications in the healthcare, consumer and industrial markets. Continuous product innovation, vast technological resources, commitment to quality, and dedication to customers are what distinguish Porex in the marketplace.

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POREX® Radial Cartridge Filter™



- Porous Plastic
- High Flow Capacity
- Long Service Life
- Surface Filtration
- High Solids Loading
- Cleanable
- Backwashable



porexfiltration.com

Why Choose Porex Radial Cartridge Filters?

- Rigid, lightweight Porex Radial Cartridge Filters install easily into existing filtration systems
- Porous PE cartridge is a one-piece, molded structure without seam or cage required for many applications
- Single-layer construction optimizes backwashable capability
- Molded high-density polyethylene cartridges have excellent chemical and physical resistance to withstand cleaning and reuse
- Uniform, omni-directional pore structure ensures the right cartridge for your application
- Filtration material complies with the Code of Federal Regulations, Title 21, Section 177, 1520 Item 2.1, for food contact

Structural Filtration Media for Optimal Performance

Porex Radial Cartridge Filters are unique, patented, porous plastic cartridges designed to fit standard industrial and commercial cartridge filter housings. The polyethylene (HDPE and UHMWPE) cartridges are available in a wide range of pore sizes from 5 to 50 microns. The single-layer, one-piece molded structure is backwashable and cleanable.

Chemical Resistance
Porex Porous Plastics are made from thermoplastics that are resistant to a broad spectrum of corrosive chemicals and reagents.





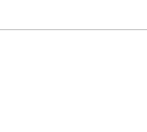
Filtration Efficiency
Porex Radial Cartridges are classification type filters that effectively remove particles at and above their respective ratings while allowing most smaller particles to pass through.

Porex Radial Cartridges maintain their high particle removal efficiency for consistent, reproducible results throughout the life of the filter. Filter performance is often expressed in terms of percent efficiency, defined as the ratio of upstream particle concentration compared to the downstream concentration that has passed through a filter body (multiplied by 100).

PERFORMANCE ATTRIBUTES

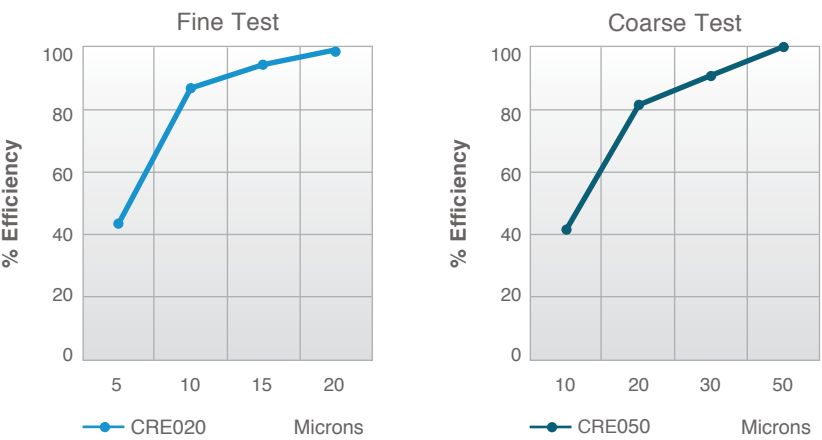
- Porous Polyethylene (HDPE and UHMWPE)
- Long Service Life
- Backwashable
- Wide Range of Pore Sizes
- High Surface Area Radial Geometry
- High Flow Rates
- One Piece Molded Media Pack
- Chemically Cleanable
- Multiple Diameters, Lengths and End Configurations
- Fits Standard Industrial and Commercial Filter Housings

TYPICAL APPLICATIONS

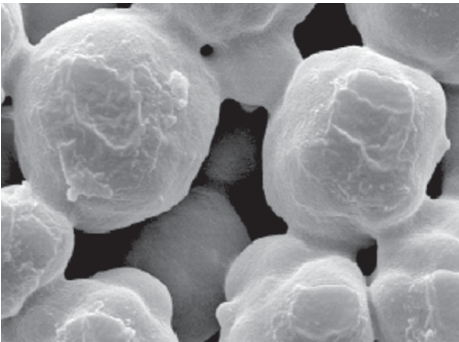
	Coatings:	Paint, Inks, Resin
	Refineries:	Catalyst Recovery Clarification
	Food & Beverage:	DE or Ion Exchange Septum, DE Trap, Prefiltration, Bulk Loading
	Pulp & Paper:	White Water, Resin, Wastewater
	Water & Wastewater:	RO prefilter, UF/NF Prefilter, Cooling Towers, Scrubber Water
	Hydraulic:	Lube Filter
	Metal Finishing:	Cutting Fluids, Waste Reduction
	Automotive:	Paint and Machine Tools
	Oil & Gas:	Water Flood, Completion Fluid, Amine, Glycol
	Bio-Diesel:	Point-Of-Use
	Microelectronics:	CMP, RO Prefilter, Photoresist, Stripper, PCB, PVA, CRT Coating

Product Ordering Guide		
Radial Cartridge Filter Part Number Matrix. Item must include a choice from each row of the center column. Example: CRE00502ANNN		
Type	CR	Cartridge Radial Grid
Polymer	E	Polyethylene
Pore Size (microns)	005 010 020 050	5 10 20 50
Length	0 1 2 3 4 6 7 8 9	4.875" 9.9" 19.9" 29.9" 40" 9.75" 19.5" 29.25" 39"
Outside Diameter	2 4 6	2.65" (6.7 cm) 4.5" (11.4 cm) 6.1" (15.5 cm)
End Cap	N S A B C D E F	DOE/PU } 4.5" & 6.1" OD Only SOE/PU } DOE (Gasket/Gasket) SOE (Gasket/Flat) 222/Flat 222/Fin 226/Flat 226/Fin
Cage	N Y	None Yes
Seal	N E S V F B	None Ethylene Propylene Sil Vit FEP Buna
Filler	N A	None Anti-Microbial*

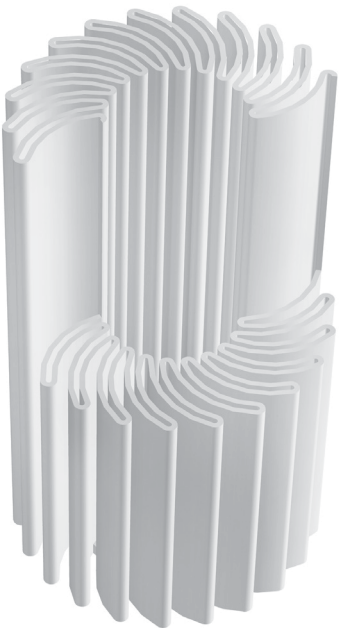
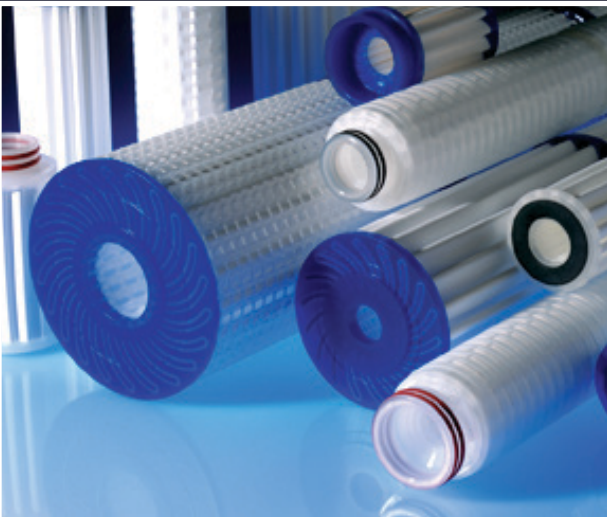
*In Development



The Initial Retention Efficiency results per ASTM 795-88 are based on a single pass using a 2.65" diameter cartridge with 10" length at a flow rate of 3 gpm/ft² of water with ISO Fine or Coarse Test Dust.



MATERIAL TECHNOLOGY
Throughout each Porex Radial Cartridge Filter runs an intricate network of open-celled, omni-directional pores which gives the media consistency throughout the cartridge for an innovative combination of filtering capability and structural strength.



Cutaway drawing of Radial Cartridge