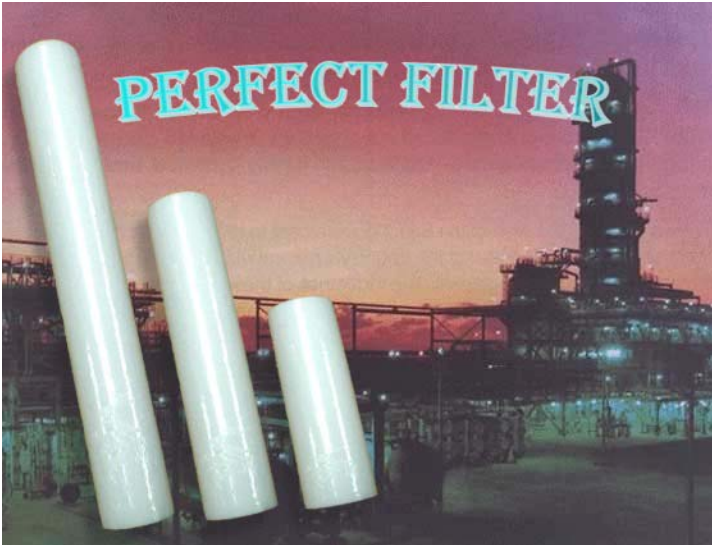


Graded Max[®] Series Polypropylene Depth Filter



Graded Max[®] Series Filter Cartridge is the workhorse of fluid treatment for pre-filtration and final particulate filtration. It is a melt blown spun polypropylene depth filter which is based on advanced continuous extrusion process creates a real graded distribution in pore sizes within the filter cartridge. The structure is truly three dimensional with progressively finer retention capability as the fluid travels into the cartridge. The result is maximum dirt load with minimum pressure as compare with competitive products.

The entire cartridge is made out of pure polypropylene resin that is binder free, self-bonded and with retention rating from 1 micron to 100 micron using fiber of varying diameter from 0.5 to 10 micron. The entire cartridge is compliant with FDA Title 21 of the Code of Federal Regulations 177.1520 for direct and indirect food contact.

PLPP Series Recommended Applications

Commercial

- ✚ Pre-filter of drinking water system
- ✚ Pre-filter of R.O. system and others water system

Industrial

- ✚ Oil removal industry
- ✚ Food and beverages industry
- ✚ Photographic industry
- ✚ Pharmacy industry
- ✚ Electroplating, etching and image development processes in PCB industry.
- ✚ Filtration of electroplating fluid in conventional electroplating industry.
- ✚ Pre-filter of DI & RO water filtration system for industry.
- ✚ Filtration of medium & low viscosity fluids of chemical.
- ✚ Filtration of water for manufacturing processes and recycled water.

PLPP Series Features

- ✦ Melt blown micro fiber and Multi-layers structure provides consistent particle retention and superior contaminants holding capacity with longer filtration life.
- ✦ Thermally self-bonded micro fiber construction ensures consistent production yields throughout filtration life. No fiber releasing and media migration.
- ✦ No surfactants or adhesives are present to interfere product quality or cause foaming
- ✦ 100% pure polypropylene meets the requirements of the FDA CFR Title 21,177.1520
- ✦ Board chemical compatibility for variety of application



PLPP Series specifications

| | |
|-----------------------|---|
| Operation conditions | Maximum operating pressure drop: 21°C=5.0Kgf/cm2, 65°C=2.8Kgf/cm2 |
| | Recommended replaceable pressure drop:2.5Kgf/cm2 |
| Materials | 100% polypropylene, melt-blown thermal bond fiber. |
| Retention ratings | nominal 1, 5, 10, 20, 30, 50, 75, 100 micron |
| Product specification | Inner diameter: 16mm 20mm,25.4mm,28mm,30mm |
| | Outer diameter:40mm~15mm |
| | Length:125mm~1270mm |

Test System

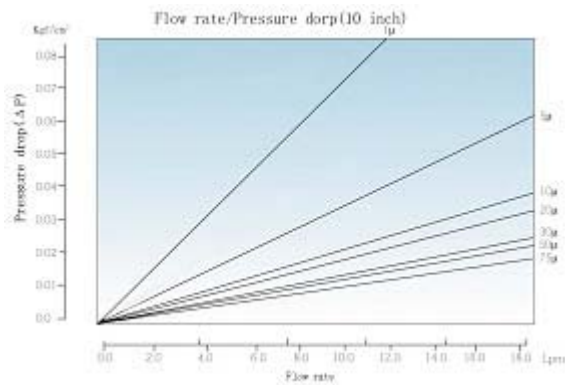
Refer to NSF (National Sanitation Foundation) ANSI/NSF-42 and ISO 4572, ASTM 797-88 Standard.

Chemical Compatibility

Polypropylene provides board chemical compatibility for variety of application.

| Chemicals | 25°C(77°F) | 60°C(144°F) | Chemicals | 25°C(77°F) | 60°C(144°F) |
|-------------------|------------|-------------|---------------------|------------|-------------|
| Acetic Acid | ☑ | ☑ | Nitric acid 5~10% | ☑ | ☑ |
| Vinyl Acid | ☑ | ☑ | Toluene | ☑ | ☒ |
| Acetone | ☑ | N/A | Methyl Alcohol | ☑ | ☑ |
| Hydroxyl benzene | ☑ | ☑ | Toluene | ☑ | ☒ |
| Hydrochloric acid | ☑ | ☑ | Alkane Hexyl | ☑ | ☒ |
| Vitriol | ☑ | ☑ | Sodium Hydroxide | ☑ | ☑ |
| Nitric Acid 50% | ☒ | ☒ | Potassium Hydroxide | ☑ | ☑ |

Liquid Flow chart





Ordering Information

PLPP-S-005-10-D-064

| Perfect Filter Melt Blown PP Depth Filter Cartridge | Surface Structure | Micron Rating (μm) | Length (inch/mm) | ID (mm) | OD (mm) |
|---|---------------------------------|---|---|--------------------------------------|---|
| | S: Smooth DG: Deep Groove | 001= 1 μm 005= 5 μm 010= 10 μm 020= 20 μm 030= 30 μm 050= 50 μm 075= 75 μm 100= 100 μm | 05= 5"(127mm) 10A= 9.75"(247mm) 10B= 9.875"(250mm) 10= 10"(254mm) 20= 20"(508mm) 30= 30"(762mm) 40= 40"(1016mm) | A=16 B=20 C=25 D=28 E=30 | 040=40 050=50 064=64 069=69 115=115 |

| Packaging pc/case | |
|----------------------|-------------|
| 5" | 100 pc/case |
| 9.75" | 50 pc/case |
| 9.875" | 50 pc/case |
| 10" | 50 pc/case |
| 20" | 25 pc/case |
| 30" | 15 pc/case |
| 40" | 15 pc/case |

| | |
|---|---|
|  |  |
| S Smooth | DG Deep Groove |

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