

Polymer Leaf Disc Filter

Weave Impossible to Possible



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BOOCHORBrochure



We can offer a full range of polymer leaf disc filters to meet your various requirements of polymer melt filtration applications.

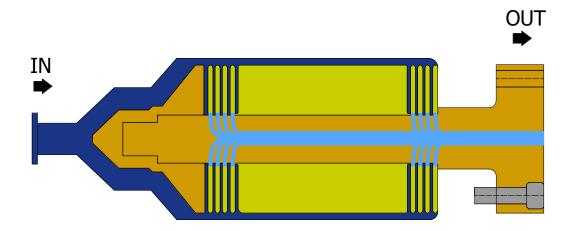
Polymer leaf disc filter is made of sintered stainless steel (316L) wire mesh laminates or sintered metal non-woven felt medium. It is an ideal choice for polymer film production. The unique disc design and configuration help to maximize the increased effective filter area and shortened the residence time of the polymer, thereby lowering the risk of polymer degradation and offering fast, efficient filtration of polymer melt filtration applications.

In addition, we can also offer stainless steel (304, 316, etc.), Monel or other alloy as the filter media.



Working Principle

Place the multiple installed leaf disc filters into the horizontal filter housing. Melt with impurities enters from the inlet and flows towards the filter elements from the top and the bottom. Gel impurities are trapped on the filter surface and clean melt flows into the center tube from the hub holes and then flows out of the vessel.



POLYMER LEAF DISC FILTER

Installation



During Installation

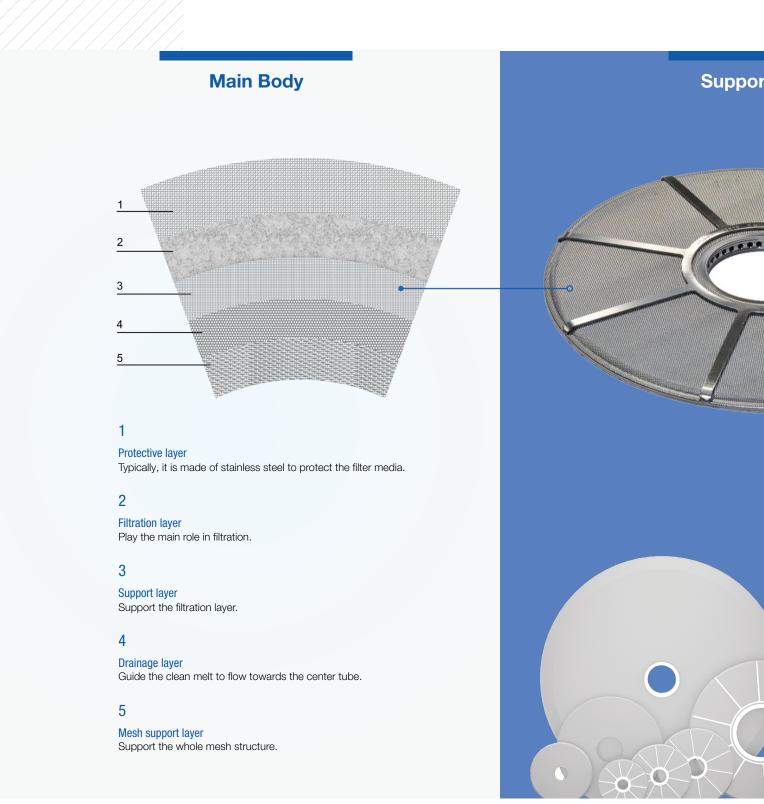


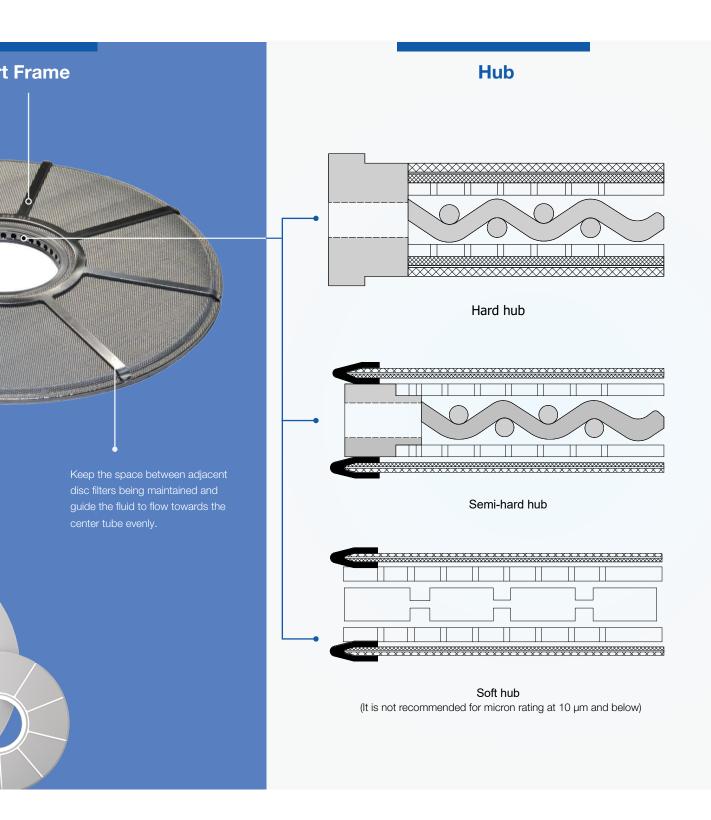
After Installation



Structure

Polymer leaf disc filter consists of the main body, hub and star support frame.







Specification

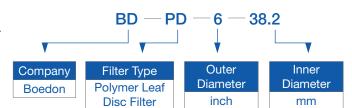
Material: sintered wire mesh, sintered metal fiber felt.

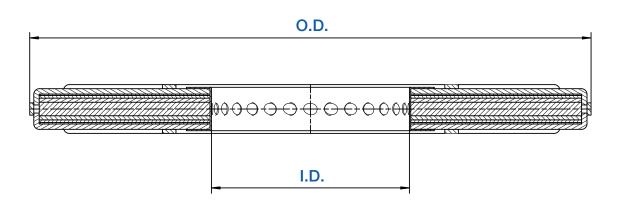
Maximum continuous: up to 400 °C

Filter rating: 0.5-200 µm

Minimum differential pressure: 300 bar at 350 °C

Porosity: 70%–85%





| Popular Specification of Polymer Leaf Disc Filters ———————————————————————————————————— | | | | | |
|---|-------------|-----------|-----------|----------------|------------------|
| Model | O.D. (inch) | O.D. (mm) | I.D. (mm) | Thickness (mm) | Filter Area (m2) |
| BD-PD-6-38.2 | 6 | 152.4 | 38.2 | 6.5 | 0.032 |
| BD-PD-7-38.2 | 7 | 177.8 | 38.2 | 6.5 | 0.048 |
| BD-PD-7-47.6 | 7 | 177.8 | 47.6 | 6.5 | 0.046 |
| BD-PD-7-63.5 | 7 | 177.8 | 63.5 | 6.5 | 0.044 |
| BD-PD-7-85 | 7 | 177.8 | 85 | 6.5 | 0.038 |
| BD-PD-10-47.6 | 10 | 254 | 47.6 | 7.2 | 0.082 |
| BD-PD-10-85 | 10 | 254 | 85 | 6.5 | 0.08 |
| BD-PD-12-63.5 | 12 | 304.8 | 63.5 | 6.5 | 0.13 |
| BD-PD-12-85 | 12 | 304.8 | 85 | 6.5 | 0.12 |
| BD-PD-12-85 | 12 | 304.8 | 85 | 7 | 0.12 |
| BD-PD-12-85 | 12 | 304.8 | 85 | 7.5 | 0.12 |

Notes: Other specifications are available upon request.

Features & Application

Features

- High viscosity, high flow
- Good cleaning performance
- Long service life
- Good mechanical strength
- High filtration accuracy
- High dirt holding capacity

Application







Rubber

- Thermosetting resin
- Thermoplastic resin

Plastic & Plastic Recycling

- Plastic bottle and box recovery
- Plastic bag and paper recovery
- BOPA
- BOPI and other biaxially oriented plastics film production

Chemical Fiber

- Polyester
- Spandex
- Polypropylene
- Nylon and other high-performance polymer fiber production

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