

Ultipleat® PKS Filter

Description

Ultipleat PKS filter cartridges are designed for high flow rate, aqueous applications required for 6.5G to the newest generation of liquid crystal display (LCD) processes. These filters can handle flow rates up to 250 L/min, thereby reducing the system footprint and change-out costs. Ultipleat PKS filters are available in four filter media types; polypropylene, highly asymmetric hydrophilic polysulfone, polyethersulfone and PTFE with removal ratings from 0.03 µm to 30 µm.

Features & Benefits

- Ideally suited for most LCD wet processing applications, such as developing, etching, stripping and DI water rinsing
- Broad choice of membranes and removal ratings suitable for many different applications
- Patented, crescent-shaped pleat structure allows for high flow rates and long service life
- Compact design makes for efficient filter change-outs, thus reducing equipment down-time



| Components | Materials | | | |
|-----------------|--|---|---------------------------------|------|
| Filter media | Polypropylene | Highly asymmetric, hydrophilic polysulfone | Hydrophilic polyethersulfone | PTFE |
| Support | Polypropylene | | | |
| Core | Polypropylene | | | |
| End caps | Polypropylene | | | |
| Sealing options | EPDM, Fluoroelastomer, FEP encapsulated Fluoroelastomer, Kalrez ¹ (AS568A-226 double O-ring) | | | |

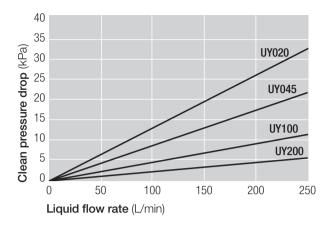
Materials of Construction

¹ Kalrez is a registered trademark of E. I. du Pont de Nemours and Company

Specifications

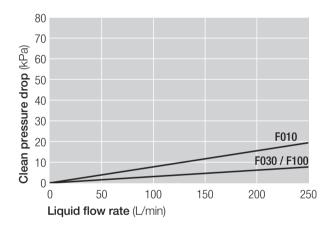
| Filter media | Polypropylene | Highly asymmetric, hydrophilic polysulfone | Hydrophilic polyethersulfone | PTFE |
|-------------------------------|--|---|---------------------------------|----------------|
| Removal Ratings (µm) | 2, 4.5, 10, 20, 30 | 0.03, 0.1, 0.2 | 0.45, 1.2 | 1, 3, 10 |
| Maximum Operating Temperature | 80 °C / 176 °F | | | 85 °C / 185 °F |
| Maximum Differential Pressure | 0.69 MPa @ 20 °C / 100 psid @ 68 °F 0.34 MPa @ 80 °C / 50 psid @ 176 °F | | | |

Typical Flow Characteristics - 1 cP fluid, 20°C

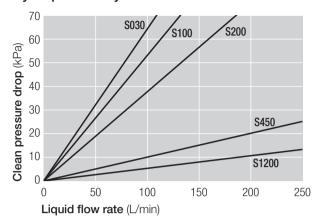


Polypropylene

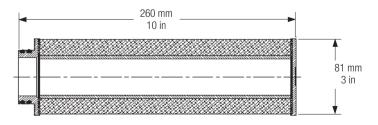
PTFE



Highly Asymmetric Hydrophilic Polysulfone Hydrophillic Polyethersulfone



Dimensions (nominal)



Part Numbers / Ordering Imation

UPK310 1 2

Table 1

| Code | Filter Media | Removal ratings (µm) |
|-------|---|----------------------|
| UY020 | | 2 |
| UY045 | | 4.5 |
| UY100 | Polypropylene | 10 |
| UY200 | | 20 |
| UY300 | | 30 |
| S030 | | 0.03 |
| S100 | Highly asymmetric, hydrophilic polysulfone | 0.1 |
| S200 | | 0.2 |
| S450 | Hydrophilic | 0.45 |
| S1200 | polyethersulfone | 1.2 |
| F010 | | 1 |
| F030 | PTFE | 3 |
| F100 | | 10 |

Table 2

| Code | O-ring materials |
|------|----------------------------------|
| J | EPDM |
| Н | Fluoroelastomer |
| H1 | FEP encapsulated fluoroelastomer |
| H11 | Kalrez |

Representative example part numbers

| (Polypropylene Media) | (Hydrophilic Polyethersulfone Media) |
|---|--------------------------------------|
| UPKS310UY020J | UPK310S450J |
| UPKS310UY045J | UPK310S1200J |
| UPKS310UY100J | |
| UPKS310UY200J | (PTFE Media) |
| | UPK310F010H1 |
| (Highly Asymmetric Hydrophilic Polysulfone Media) | UPK310F030H1 |
| UPK310S030J | UPK310F100H1 |
| UPK310S100J | |
| UPK310S200J | |
| | |



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