

# **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 <sup>1</sup> (AS568A-226 double O-ring)			

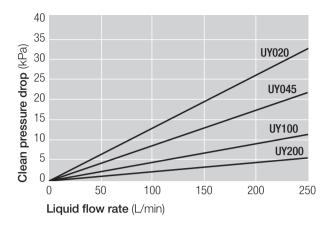
**Materials of Construction** 

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

## **Specifications**

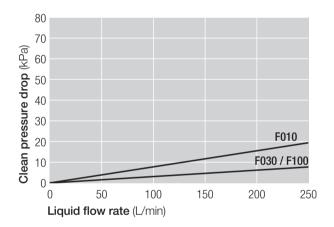
Filter media	Polypropylene	Highly asymmetric, hydrophilic polysulfone	Hydrophilic polyethersulfone	PTFE
Removal Ratings (µm)	2, 4.5, 10, 20, 30	0.03, 0.1, 0.2	0.45, 1.2	1, 3, 10
Maximum Operating Temperature	80 °C / 176 °F			85 °C / 185 °F
Maximum Differential Pressure	0.69 MPa @ 20 °C / 100 psid @ 68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

## Typical Flow Characteristics - 1 cP fluid, 20°C

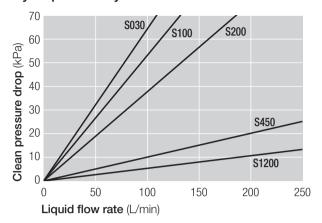


### Polypropylene

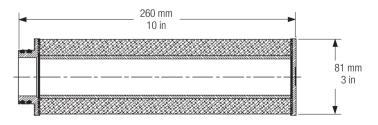
PTFE



#### 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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