

TRILITE® UPRM400U

Mixed resin for ultrapure water

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TRILITE® UPRM400U is an ion exchange resin for high-purity ultrapure water, which is produced by mixing regenerated uniform cation and anion exchange resins in equal quantities. It is possible to manage not only the purity of the produced water but also the Total Organic Carbon (TOC) and Ion leakage.

Physical and Chemical Properties

	SAC	SBA
Matrix	Styrene-DVB, Gel	
Functional group	H ⁺	OH ⁻
Ionic form	1.9	1.0
Particle Size(μm)	0.62±0.05	0.62±0.05
Uniformity coefficient	1.1 ↓	1.1 ↓
Ionic Conversion(%)	H ⁺	99.0 Min
	OH ⁻	95.0 Min
	Cl ⁻	1.0 Max
Inlet condition	Ultrapure water, Resistivity>17.5MΩ·cm, TOC<2ppb, SV30	
Outlet condition	Guaranteed 18.1 MΩ·cm ↑ (in 30min.) ΔTOC<1ppb(in 120min.) Metal ion leakage<0.1ppt	

Recommended Operating Conditions

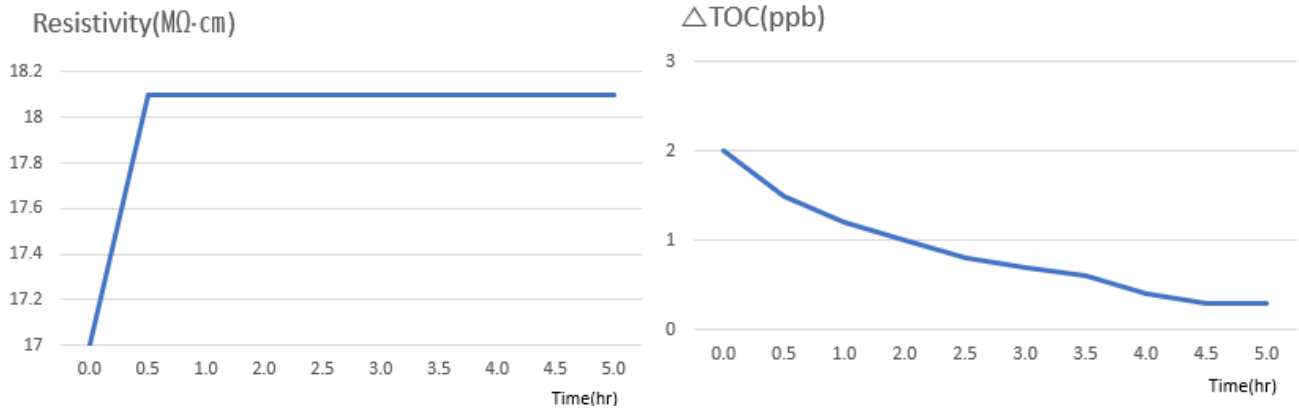
Operating Temp(°C)	60	pH Range	0~14
Bed Depth(mm)	600	Service Flow Rate(m/h)	5~60

Applications

TRILITE® UPRM400U is used for producing high-purity ultrapure water for final polishing in semiconductor applications.

Resistivity & TOC

- Resistivity > 18.1 M Ω ·cm (in 30min)
- Δ TOC < 1ppb (in 120min)
- Feed Water : Resistivity > 17.5 M Ω ·cm, TOC < 2ppb, SV = 30



Hydraulic Characteristics

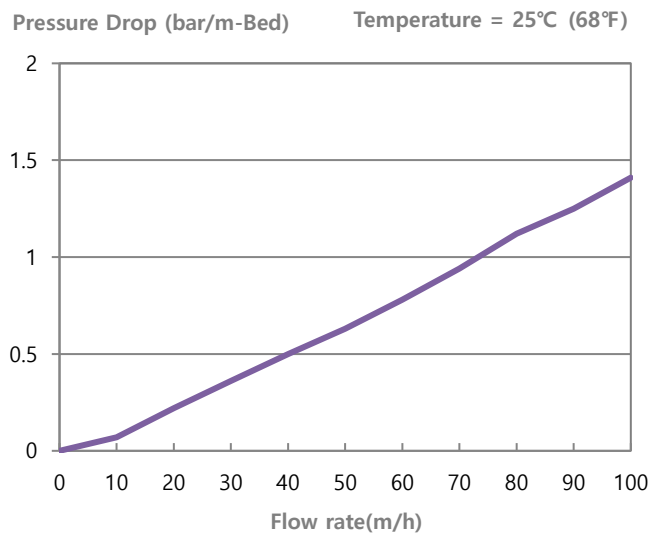


Figure 1. TRILITE® UPRM300U

Packing

25 ℓ PE Bag, 50 ℓ Drum

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Samyang's TRILITE Ion exchange resins are produced based on the ISO 9001, ISO 14001 certification.

Samyang Corporation, 31 Jong-ro 33-gil, Jongno-gu, Seoul, Korea Tel: +82-2-740-7732~7, Fax: +82-2-740-7709



<http://samyangtrilite.com>