

## Product Data Sheet

**DIAION™ PA312LTUMB**

DIAION™ PA312LTUMB is a porous type strongly basic anion exchange resin. It has a 6% cross-linkages and excellent properties. It is recommended for higher purity water treatment application.

**Product**

Grade Name	DIAION™ PA312LTUMB	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Porous	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form	OH <sup>-</sup>	

**Specification**

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	0.85 min.
Water Content	%	58 - 68
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 425 μm	%	5 max.
Effective Size	mm	0.42 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion OH Form	eq%	95 min.
Ionic Form Conversion Cl Form	eq%	1 max.
ΔTOC	ppb	10 max.
Outlet Resistivity	MΩ·cm	15 min.

**Typical Properties**

Shipping Density	g/L	650
Mean Particle Size	μm	690
Particle Density	g/mL	1.07
Total Swelling (Cl <sup>-</sup> to OH <sup>-</sup> )	%	23

**Recommended Operating Conditions**

Maximum Operating Temperature	°C	80 (Cl <sup>-</sup> ) 60 (OH <sup>-</sup> )
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 60
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	BV/h	2 - 8
Total Rinse Requirement	BV	2 - 10

1 BV(Bed Volume)=1 m<sup>3</sup>/m<sup>3</sup>-resin

Mitsubishi Chemical Corporation

please visit <http://www.diaion.com/en>

### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ PA312LTUMB resin in normal down flow operation is shown in the graphs below.

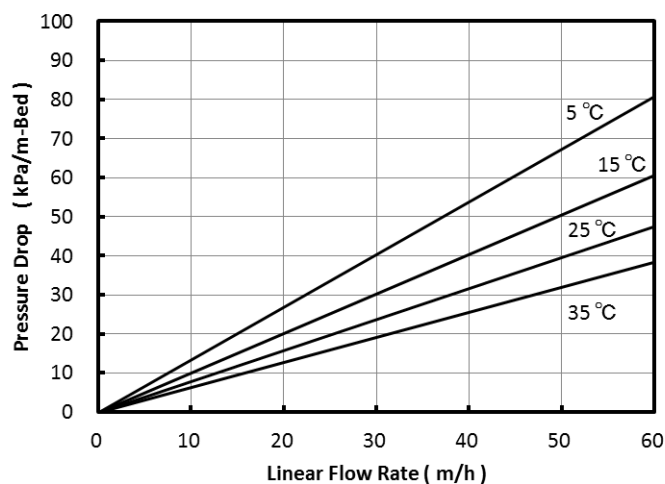


Fig. 1 Pressure Drop of PA312LTUMB

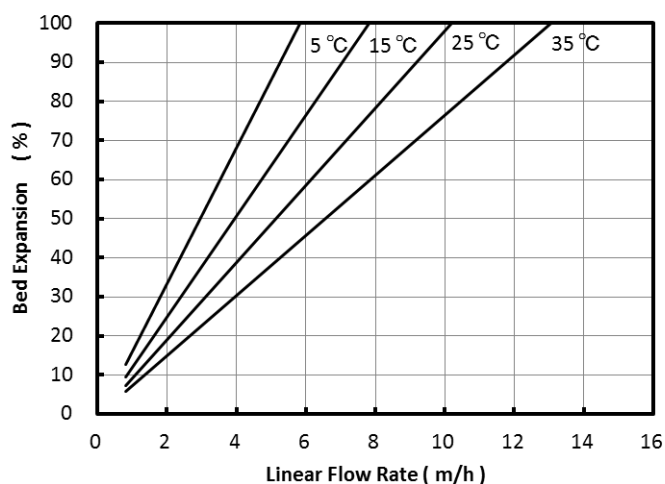


Fig. 2 Bed Expansion of PA312LTUMB

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