

# PURE RESIN PMB101-2

- REF. RA370;
- Mixed Bed Resin;
- it is a high capacity mixed bed ion exchange resin consisting of a mixture of a gel, Type I strong base anion resin and a gel strong acid cation resin for direct water purification;
- the conductivity is around 0,1 us/cm;
- suitable for use in regenerable or non-regenerable cartridges, for deionization with high silica removal efficiency and refine water for electrical home applications.

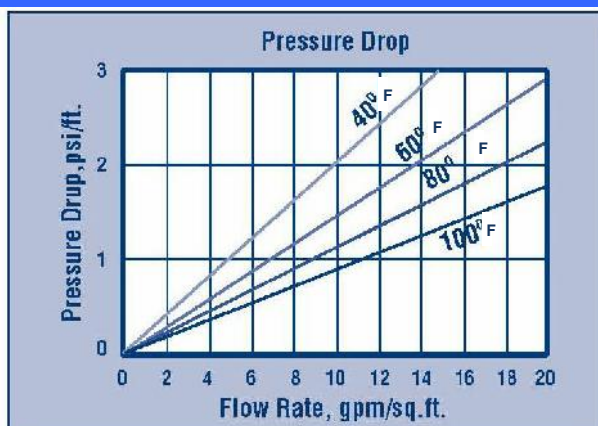


Typical Physical & Chemical Characteristics	
Polymer Matrix Structure	Gel polystyrene crosslinked with DVB
Functional Group: Cation Anion	R-SO <sub>3</sub> <sup>-</sup> H <sup>+</sup> R <sub>4</sub> -N-OH <sup>-</sup>
Ionic Form, as shipped	H <sup>+</sup> / OH <sup>-</sup>
Physical Form and Appearance	Spherical Beads
Sphericity	95% min.
Screen Size Range US Standard Screen	16 ÷ 50 mesh, wet
Particle Size Range	+1,2 mm < 5%, - 0,3 mm < 1%
Volume Ratio (as shipped) Cation Anion	40% PC003H 60% PA101OH
Total Exchange Capacity, Cation (in Na <sup>+</sup> form) Anion (in Cl <sup>-</sup> form)	2,0 eq/l min. 1,3 eq/l min.
Water Retention, H <sup>+</sup> form OH <sup>-</sup> form	45 ÷ 50% 53 ÷ 60%
Shipping Weight (Approx.)	700 ÷ 740 g/l (44 ÷ 46 lbs/cu.ft, approx.)
Temperature limit: Non regenerative bed Regenerative bed	100°C (212°F) max. 60°C (140°F) max.
pH Range	0 ÷ 14

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Suggested Operating Conditions	
Maximum Temperature	80°C (175°F) max.
Minimum Bed Depth	0,6 m (24 inches)
Service Flow Rate	16 ÷ 80 BV/h (2,0 ÷ 10,0 gpm/cu.ft)
Limitations	Extended exposure to strong oxidizers, such as chlorine, hydrogen peroxide and concentrated nitric acid, degrade the structural backbone of the resin and should be avoided

## Hydraulic Properties



**Pressure Drop:** The graph above shows the expected pressure loss per foot of bed depth as a function of flow rate at various temperatures.