

着淀粉的添加量的增加而上升,样品的抗折强度随之下降.烧成样品的平均孔径随着淀粉的质量分数增加先从 $0.89\ \mu\text{m}$ 增大至 $1.14\ \mu\text{m}$,而后降低为 $0.47\ \mu\text{m}$.烧成样品的纯水通量与平均孔径成正比,当平均孔径最大时,样品的纯水通量最大,为 $9.2\ \text{m}^3/(\text{m}^2\cdot\text{h})$.烧成样品的耐酸性强于耐碱性,耐酸性测试后样品的质量损失率在 $1.96\%\sim 2.04\%$ 之间,耐碱性测试后样品的质量损失率在 $3.96\%\sim 4.13\%$ 之间.

3)淀粉的质量分数为3%时,样品的抗折强度为 $18.1\ \text{MPa}$,孔隙率为 41.8% ,纯水通量为 $9.2\ \text{m}^3/(\text{m}^2\cdot\text{h})$,综合性能最佳.

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