

POVAL's characteristics are affected by the degree of polymerization and the degree of hydrolysis.

The following table shows the affect of the degree of polymerization and degree of hydrolysis on POVAL's basic characteristics.

Characteristic	Degree of Polymerization		Degree of Hydrolysis	
	Low	High	Low	High
	Low Degree of Polymerization Products	High Degree of Polymerization Products	Partially Hydrolyzed Type	Fully Hydrolyzed Type
Viscosity of solution	↓ ↓	↑ ↑	↓	↑
Viscosity stability at low temperature	↑	↓	↑ ↑	↓ ↓
Membrane strength	↓ ↓	↑ ↑	↓	↑
Water solubility	↑	↓	↑ ↑	↓ ↓
Water resistance	↓	↑	↓ ↓	↑ ↑
Emulsifying ability	↓	↑	↑ ↑	↓ ↓

The greater the number of arrows shown, the greater the affect.