



Technical Data Sheet

MATERIAL:	Poly(acrylic acid)
CATALOG NUMBER:	026
CAS NUMBER:	9003-01-4
DESCRIPTION:	Homopolymer of acrylic acid
FORMULA:	$(C_3H_4O_2)_x$

TYPICAL PROPERTIES:

Appearance:	Powder
Approx Mw:	450,000
Equivalent weight:	76
Refractive index:	n_D^{25} 1.527
Density:	1.41
Viscosity:	700 cp (4% solution in water)
Glass transition temp:	106°C
pH (1% water solution):	2.5-3.0
Solubility:	Dioxane, ethanol, methanol, water

GENERAL INFORMATION:

This product is used in applications requiring high carboxylic content without appreciable increase in viscosity. Application areas include paper sizing, drilling fluids and water treatment. Can be neutralized with a variety of reactants including ammonium hydroxide, selected amines, urea and caustic. Neutralized derivatives have been used in a variety of applications including hand creams, toothpastes, shaving creams, latex thickeners and hand cleaners.

STRUCTURE: