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Technical Data Sheet

MATERIAL: Poly(acrylic acid)

CATALOG NUMBER: 413

CAS NUMBER: 9003-01-4

DESCRIPTION: Homopolymer of acrylic acid, 25% solids in water

FORMULA: $(C_6H_{10}O_3)_x$

TYPICAL PROPERTIES:

 $\begin{array}{lll} \mbox{Appearance:} & \mbox{Liquid} \\ \mbox{Approx Mw:} & 240,000 \\ \mbox{Refractive index:} & \mbox{n_D}^{25} \mbox{1.527} \\ \mbox{Density:} & 1.09 \mbox{$(25^{\circ}C)$} \end{array}$

Viscosity: 500-1,500 cp (25°C)

Glass transition temp: 106°C pH: 2.2-3.0

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:

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