



Technical Data Sheet

MATERIAL:	Poly(acrylic acid)														
CATALOG NUMBER:	599														
CAS NUMBER:	9003-01-4														
DESCRIPTION:	Homopolymer of acrylic acid														
FORMULA:	$(C_3H_4O_2)_x$														
TYPICAL PROPERTIES:	<table><tr><td>Appearance:</td><td>Powder</td></tr><tr><td>Approx Mw:</td><td>4,000,000</td></tr><tr><td>Refractive index:</td><td>n_D^{25} 1.527</td></tr><tr><td>Density:</td><td>1.41</td></tr><tr><td>Glass transition temp:</td><td>106°C</td></tr><tr><td>pH (1% water solution):</td><td>2.5-3.0</td></tr><tr><td>Solubility:</td><td>Dioxane, ethanol, methanol, water</td></tr></table>	Appearance:	Powder	Approx Mw:	4,000,000	Refractive index:	n_D^{25} 1.527	Density:	1.41	Glass transition temp:	106°C	pH (1% water solution):	2.5-3.0	Solubility:	Dioxane, ethanol, methanol, water
Appearance:	Powder														
Approx Mw:	4,000,000														
Refractive index:	n_D^{25} 1.527														
Density:	1.41														
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:															

Technical information and data regarding the composition, properties or use of the products described herein is believed reliable. However, no representation or warranty is made with respect thereto except as made by Sp² in writing at time of sale. Sp² cannot assume responsibility for any patent liability which may arise from the use of any product in a process, manner or formula not designed by Sp².