



AcryGen[®] 87219 Technical Data

Aqueous dispersion of self-crosslinking acrylic latex

DISPERSION PROPERTIES

Solids Content	45%
Viscosity @ 25°C (#2 @ 60 rpm)	120 cps
Ionic Character	Anionic
pH Value	3.0
Pounds/Gallon	8.8
Specific Gravity	1.06
Surface Tension	40 dyne/cm
Average Particle Diameter	165 nm
Minimum Film Forming Temperature	0°C (32°F)
Mechanical Stability	Excellent

FILM PROPERTIES

Drying above the minimum film-forming temperature leaves a clear, colorless film, which is soft and flexible at room temperature. Complete crosslinking is achieved by heating above 275°F. A fully crosslinked film is insoluble in water, acids, alkalis and organic solvents.

Glass Transition Temperature (DSC)	-16°C
Tensile Strength - Cured	570 psi
Ultimate Elongation - Cured	510%
Tensile @ 100% Elongation	70 psi
Tensile @ 300% Elongation	300 psi
Tensile @ 500% Elongation	550 psi
Tensile - Air Dry	670 psi
Ultimate Elongation - Air Dry	940%
Water Resistance, Swell	1%
Acetone Resistance, Swell	50%
Perchloroethylene Resistance, Swell	33%
Tetrahydrofuran Resistance, Swell	64%

STORAGE: Keep for 12 months in tightly closed containers protected from frost and strong heat.

NOTE:

Although data supplied above are believed to be accurate, each user is advised to make his or her own determination as to whether the described product(s) is/are appropriate for a particular use or application, whether such a use will comply with all applicable laws or regulations, or whether such a use will not infringe the intellectual property rights of third parties.

APPLICATIONS

Binder for pigmented and filled coatings.

Binder for nonwovens and textiles.

Binder for laminates and flocking.

HINTS FOR APPLICATION

Acrygen 87219 can be applied by spraying, printing, nip padding, impregnating, and roll or knife coating. It can be mechanically foamed.

It is compatible with many fillers. Pigmented coating compounds have optimum stability at pH 9. pH adjustment can be made with ammonia.

Acrygen[®] SD 15 thickener is recommended in alkaline pH. Methyl cellulose, carboxymethyl cellulose or hydroxyethyl cellulose are suitable thickeners in acid pH.

Harder films can be obtained by adding AcryGen[®] 84124.

Softer films are obtained by adding AcryGen[®] DV 242.