



# Duracet<sup>®</sup> 827

**Duracet<sup>®</sup> 827** is flexible self-crosslinking vinyl acrylic copolymer. This copolymer was designed for use as a binder for nonwovens, and modifier with urea formaldehyde resins.

## PHYSICAL PROPERTIES

**Polymer Type:** Vinyl Acrylic (Self-Reactive)

**Colloid:** Cellulosic

**Viscosity (cps):** 800 - 2800 (LVF, Spindle #4/60 RPM/77° F)

**Solids:** 48% - 50%

**pH:** 4.2 - 5.0

**Weight per Gallon:** 8.9 pounds

**Freeze/Thaw Stability:** Yes

**Mechanical Stability:** Excellent

**Borax Compatible:** Yes

**Surface Tension (dynes):** 37.60

**Glass Transition Temperature (T<sub>g</sub>):** (DSC): 4.5 °C  
(DMA): 26.8 °C



## ADDITIONAL INFORMATION

### FILM PROPERTIES

Dry films are flexible, glossy and clear. The water resistance is excellent if the polymer has been adequately cured.

Duracet<sup>®</sup> 827 conforms compositionally with FDA Regulations 175.105, 176.170, and 176.180.

## STORAGE AND HANDLING

**Shelf Life:** Three months at 70° F. Store in closed containers.

### IMPORTANT NOTICE TO CUSTOMER:

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