



Duracet 12

PRODUCT DESCRIPTION

Duracet 12 is a relatively high molecular weight adhesive. This homopolymer will exhibit low viscosity build when formulated with plasticizers or solvents. This allows the formulator to exercise wide latitude in selecting the types and amounts of plasticizers or solvents to be used and still obtain a clean machining formulation. Duracet 12 can be diluted with water if necessary.

PHYSICAL PROPERTIES

Polymer Type: Vinyl Acetate

Protective System: Polyvinyl Alcohol

Viscosity (cps): 700 to 1200 (LVF, Spindle #3/30 RPM/77°F)

Percent Solids: 55.5% - 58.0%

pH: 3.5 - 5.5

Freeze/Thaw Stability: No

Weight per Gallon (lbs): 9.1

Borax Compatible: No

Mechanical Stability: Excellent

Color: White

Tg: 39°C (DSC)

ADDITIONAL INFORMATION

FILM PROPERTIES

Dry films of Duracet 12 are hard, with a glossy, translucent appearance. Plasticizer resistance is good.

COMPOUNDING INFORMATION

DURACET 12 may be thickened using high molecular weight polyvinyl alcohol solutions or conventional cellulosic thickeners. Solvent thickening is not particularly efficient, although solvents may be incorporated in order to enhance the specific adhesion by attacking a particular coating or film. Polar solvents, such as ketones, should be diluted prior to incorporation to prevent localized gel formation. DURACET 12 offers wide compatibility with a variety of conventional and proprietary plasticizers and will generally accept high plasticizer loadings without excessive loss of film tensile strength.

Duracet 12 conforms compositionally with FDA Regulation 175.105, 176.170 and 176.180.

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