Owensboro Specialty Polymers, Inc.
Chemistry that Connects, People that Care

Technical Data Sheet

SERFENE™ 195

PVdC Latex High Barrier/Heat Seal Coating

Description

Serfene 195 is a high barrier, polyvinylidene chloride (PVDC) latex. Materials coated with Serfene 195 have excellent resistance to water vapor, gases, and grease. This latex can also be used as a top coat over other high barrier PVDC's when a low temperature heat seal is desired. The coating exhibits excellent block resistance and slip properties immediately after the coating operation. Serfene 195 is recommended when a PVDC is to be used in-line and wound against another coating which may block, for example, certain inks. It is also recommended for thermoforming applications. On plastic films, a primer is necessary for adequate adhesion.

Application Methods

The conventional methods of wire wound metering rods (Mayer rod), reverse gravure, or air knife work well with the product. Serfene 195 exhibits good flow and wetting. The moderate foaming tendency of the latex is controlled by proper handling procedures. Serfene latex is acidic, therefore metal surfaces that are in contact with the wet latex need to be fabricated from corrosion resistant materials such as 316 stainless steel or plastic.

Typical Emulsion Properties*

Solids	58%
Weight/Gallon	10.9 LBS
Viscosity	10 cps (Brookfield RVT, #1 @20 rpm)
Surface Tension	30 dynes/cm (Krüss Tensionometer)
pH	3.0
Color	Creamy white
Alcohol tolerant (IPA)	Yes- 10% maximum
Freeze/Thaw Stability	None
Recommended Shelf Life	360 days (unopened containers) @ 25°C
Storage Conditions	>40° F (5° C), <85° F (30° C)

*These items are provided for general information only. They are approximate values and are not considered part of a production specification.

Typical Film Properties

The coating should be applied at a minimum of 2 LB/ream when used as a top coat.

Water Vapor Transmission	0.3-0.45 gms/100^2 in/24 hrs when applied in two passes at 6 lbs/ream total coat weight on good glassine.
Oxygen Transmission	0.5-1.0 cc/100^2 in/24 hrs.
Minimum Sealing Temperature	220-240°F at 20 psi and 1 sec dwell.
Coefficient of Friction	0.2-0.25 both static and kinetic
Block Resistance	Excellent when tested against another PVDC.