



# Owensboro Specialty Polymers, Inc.

Chemistry that Connects, People that Care

## Technical Data Sheet

### SERFENE™ 546L

#### PVdC Latex Medium Barrier Adhesive & Extrusion Primer

##### Description

Serfene 546L is a PVDC emulsion designed for use as a primerless barrier laminating adhesive. Serfene 546L consistently demonstrates high oxygen barrier and adhesive properties with a wide variety of polymeric films. It is also used as a primer to promote adhesion and provide oxygen barrier in extrusion coated and laminated structures. Serfene 546L is well suited for PET, OPP, MDPE and LDPE.

##### Application Methods

Serfene 546L can be applied with most conventional coating methods. Its low foam and viscosity properties make it particularly suited to gravure and reverse gravure application. Smoothing bars are often used on gravure coaters to maximize the high optical clarity of the latex. 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.

Laminating substrates should be corona treated in line to achieve a wetting tension of 38 dynes/cm minimum. Isopropyl or n-propyl alcohol can be added directly to Serfene 546L to enhance the wetting of the substrate.

Bond strength of the laminate is greatly affected by the nip roll conditions. Maximum adhesion is obtained by running at the highest temperature that does not cause web distortion. Nip temperature range is 200-230°F

Serfene 546L must be coated and laminated in line to prevent blocking.

##### Typical Emulsion Properties\*

Solids	46%
Weight/Gallon	10.3 LBS
Viscosity	35 cps (Brookfield RVT, #1 @ 20 rpm)
Surface Tension	51 dynes/cm (Krüss Tensionometer)
pH	2.3
Color	Creamy White
Alcohol Tolerant (IPA)	Yes – 15% maximum
Freeze/Thaw Stability	None
Recommended Shelf Life	180 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

Oxygen Transmission	<1.0 cc/100 <sup>2</sup> in/24 hrs.
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