Owensboro Specialty Polymers, Inc.
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Technical Data Sheet

SERFENE™ 2026

PVdC Latex High Barrier Adhesive & Extrusion Primer

Description

Serfene 2026 is a self-adhering polyvinylidene chloride (PVDC) copolymer emulsion which adheres to paper substrates and plastic films without the need for an additional primer. Serfene 2026 was specifically designed as a high barrier/high bond extrusion primer for nylon and a high barrier adhesive for BOPP/BOPP film, dry bond laminations.

Serfene 2026 can decrease oxygen permeation to less than 0.6 cc O_2/100 in^2/24 hours on oxygen permeable substrates such as polyolefins.

Typical Emulsion Properties*

Solids	45%
Weight/Gallon	10.45 LBS
Viscosity	12 cps (Brookfield LVF #1 @ 50 rpm)
Surface Tension	38 dynes/cm (Krüss Tensionometer)
pH	1.5
Color	Creamy white
Mechanical Stability	Excellent
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 Uses

The principle uses of Serfene 2026 are as a high barrier, high bond strength extrusion primer for nylon and a primer for subsequent overcoating. Serfene 2026 is also an excellent high barrier self-adhering adhesive for BOPP/BOPP laminations. In-line treatment is recommended for the primary web. Polyolefins should be treated above 40 dynes/cm.

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.

Recommended Operating Conditions

Application Method	Reverse gravure, direct gravure, wire wound metering rods (Mayer rod)
Application Solids	35 – 45%
Web Temperature	200-230°F, zoned oven for BOPP laminating
Coating Weight	2.0 - 2.5 LB/ream for barrier extrusion priming
	2.5 – 3.5 LB/ream for high barrier adhesive
Cure Time	14 days at room temperature for maximum cure
Clean-up	Immediate-water
	Freshly dried – water, MEK, toluene
	Dried – THF, stripping solution