

Syntran® Bimodal Polymer Technology

Improving Cosmetic Formulations

Interpolymer introduces its unique new Bimodal technology for improving skin care and cosmetic formulations. Syntran® PC 5100 tightens and firms the skin, leaving it looking and feeling youthful. Superior flexibility, adhesion, rub or wear resistance, and ease of removability are additional attributes. The innovative bimodal technology employs a bimodal interpenetrating network engineered to achieve a hydrophobic and hydrophilic balance that delivers both cationic and anionic functions.

Bimodal polymers provide a pleasant, natural feel without stiffness, flaking, or buildup.



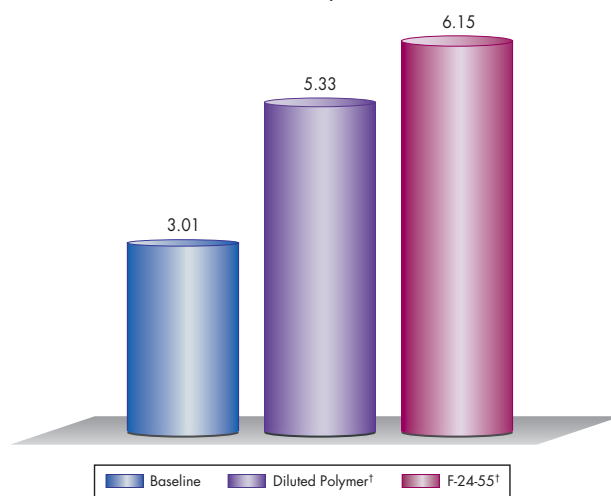
Benefits of Syntran PC 5100

- Immediate Tightening and Firming Attributes
- Superior Adhesion to Skin
- Excellent Film Flexibility
- Clear, Non-flaking Films
- Breathable Film
- Easily Removable, Minimum Buildup

Typical Physical Properties

	Syntran® PC 5100
INCI Name	Polyacrylate - 21 (and) Acrylates/Dimethylaminoethyl Methacrylate Copolymer
Appearance	Translucent Solution
% Solids	25
pH Value @ 22°C	8.0
Viscosity @ 22°C, mPa.s	120

Skin Surface Tautness*
15 Min. Post Application
Tautness Grams per Millimeter

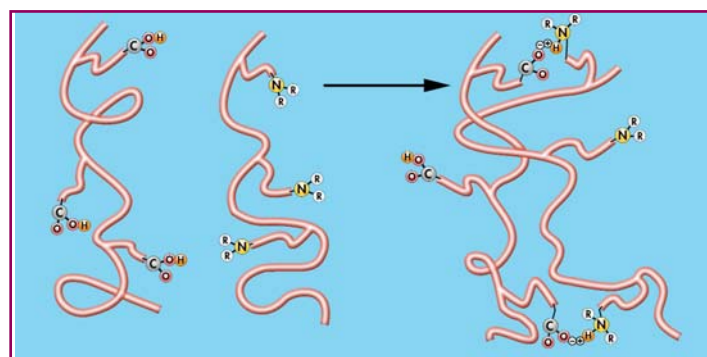
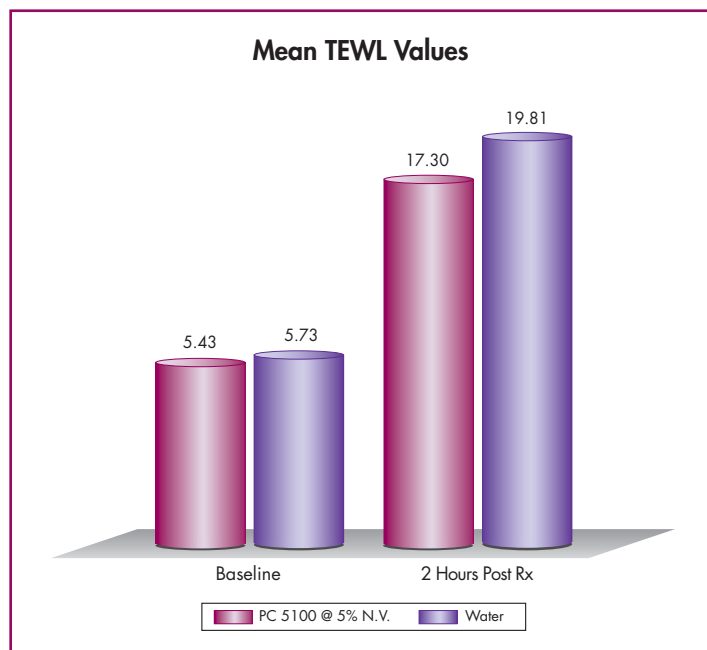
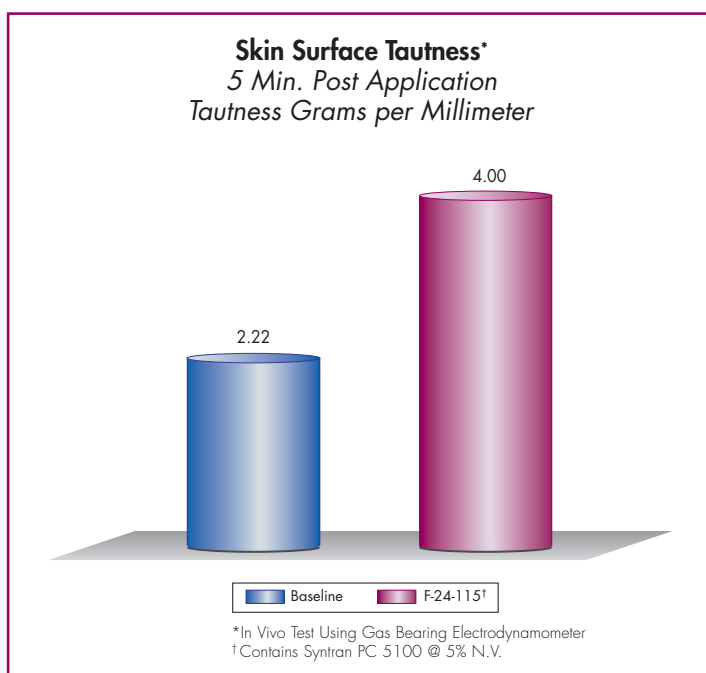


*In Vivo Test Using Gas Bearing Electrodynamometer
† Contains Syntran PC 5100 @ 5% N.V.

Note: See reverse side for formula ingredients.

 **INTERPOLYMER**
Creative Polymer Solutions

Immediate Skin Tautness Results – Formulation F-24-115



The illustration above shows the ionic interaction during the drying process. During the drying process, the bimodal polymer forms an ionic complex, even before the final film is completely dry and sets. The resultant complex or “gel” prevents the formulation from migrating even before the water or solvent has completely evaporated. The ability of bimodal polymers to set quickly make them reliable skin care polymers.

FORMULATION INGREDIENTS

Formulation F-24-115

Ingredients: Water, Alcohol Denatured, Hydroxypropyl Starch Phosphate, Polyacrylate-21 (and) Acrylates/Dimethylaminoethyl Methacrylate Copolymer, DMDM Hydantoin, Green 5, Fragrance

Formulation F-24-55

Ingredients: Water, Hydroxypropyl Starch Phosphate, Polyacrylate-21 (and) Acrylates/Dimethylaminoethyl Methacrylate Copolymer), Butylene Glycol, DMDM Hydantoin, Ext. Violet 2



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