

# Syntran® Olefin Graft SPF Boosting Technology

## Dramatically Decrease the Cost of SPF Formulations

The new patent pending Syntran® PC 5227 is an acrylate grafted olefin polymer designed specifically to increase the efficacy of UV absorbers. The use of Syntran PC 5227 should permit formulators of sun protection products to reduce the high cost of active SPF ingredients.

**In Vivo:** Tests performed on ten volunteers demonstrated that when Syntran PC 5227 was added to an SPF 20 Control crème, the resulting SPF factor was increased by over 40%.

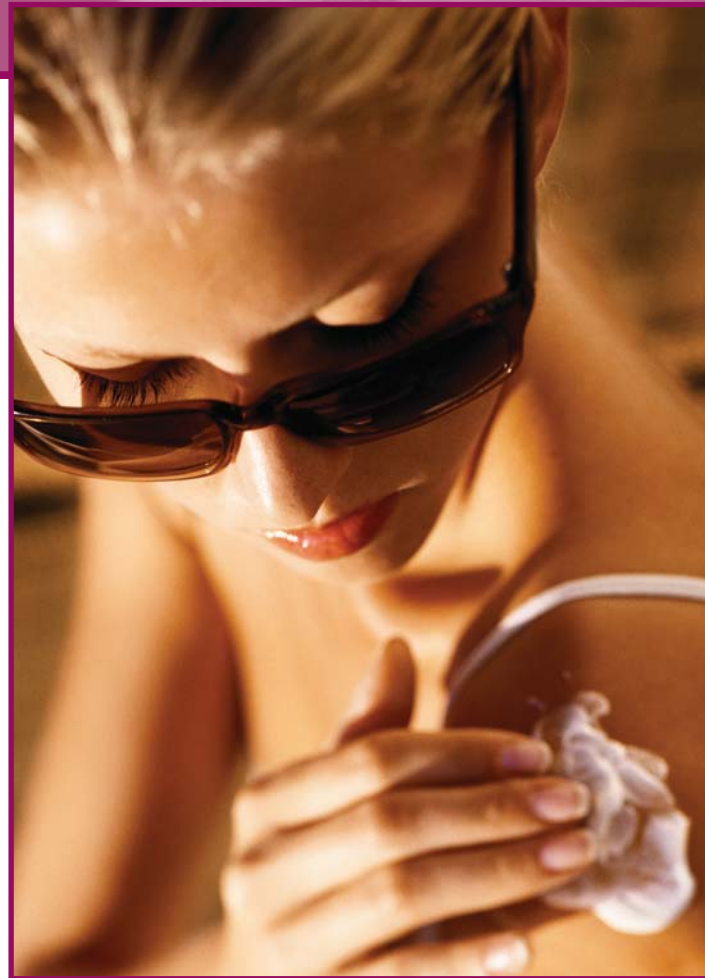
**In Vitro:** Tests on a low SPF organic UV absorber control crème formulation with Syntran PC 5227 demonstrated a boost of over 200%.

## Typical Physical Properties

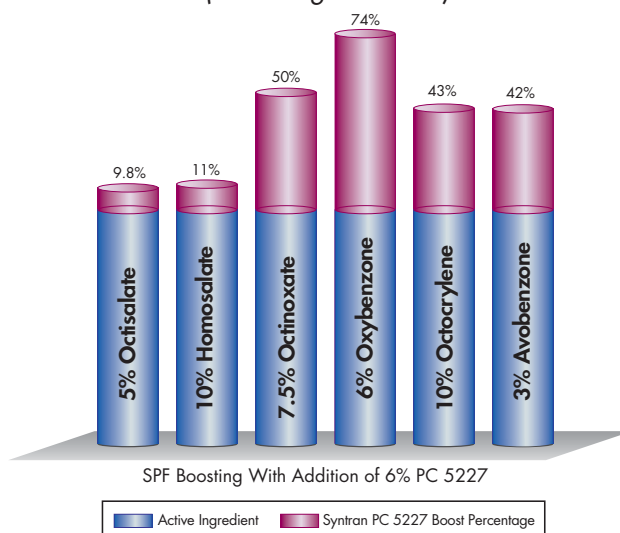
Property	Syntran® PC 5227
INCI Name	Polyacrylate - 15 (and) Polyacrylate - 17
Appearance	White Emulsion
% Solids	30.0
pH Value at 22°C	9.5
Viscosity at 22°C, mPa.s	120

## Benefits of Syntran PC 5227

- Boost the Effectiveness of SPF Ingredients
- Reduce Levels of Costly Active Ingredients
- Improves Drag and Feel
- Provides Water Resistance Properties and Film Elasticity
- Lowers Potential Irritancy Caused by UV Absorbers



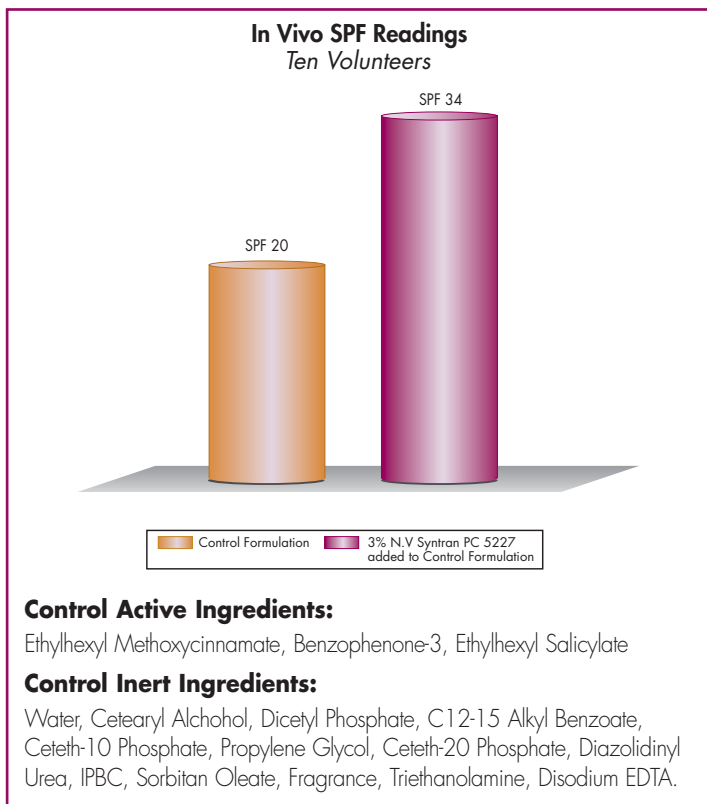
### Boosting Efficacy of Syntran PC 5227\* (Percentage Increase)



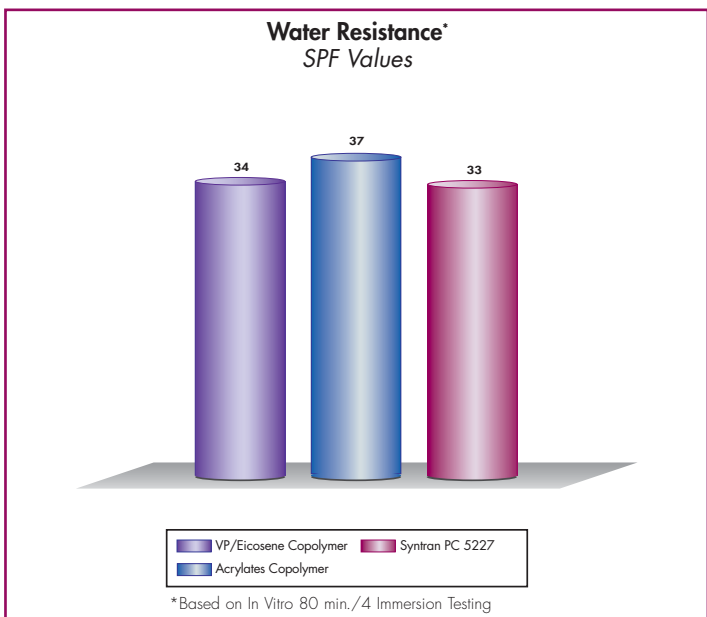
\*In Vitro Testing

 **INTERPOLYMER**  
Creative Polymer Solutions

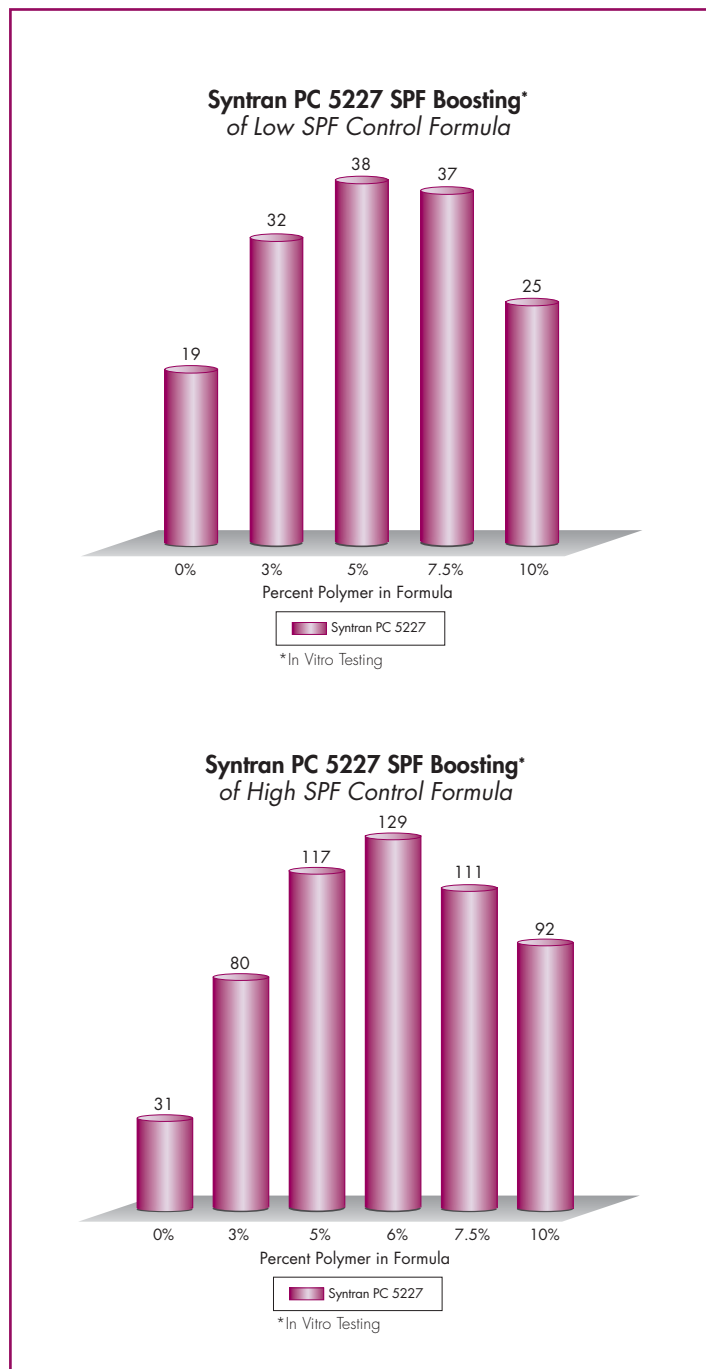
## In Vivo Test Data



## Water Resistance



## In Vitro Test Data



Interpolymer Corporation  
200 Dan Road  
Canton, MA 02021  
TEL: 800.262.1281  
FAX: 781.821.2485  
www.interpolymer.com  
info@interpolymer.com

Interpolymer Sàrl  
6, Rue Marie Curie  
BP10060 - ZI Intercommunale  
F-67162 Wissembourg, France  
TEL: [+33] 3/88 54 96 96  
FAX: [+33] 3/88 54 96 99  
www.interpolymer.fr  
info@interpolymer.fr

Interpolymer Corporation  
7501 Distribution Drive  
Louisville, KY 40258  
TEL: 800.451.8177  
FAX: 502.933.3394  
www.interpolymer.com  
info@interpolymer.com

Interpolymer GmbH  
Dr.-Wirth-Strasse 9a  
67454 Hassloch, Germany  
TEL: +49 6324 593106  
FAX: +49 6324 593107  
www.interpolymer.de  
info@interpolymer.de