



PERFORMA V polymers

The Science of Personal Care Formulation

Application Guide



Feature

Hyper-branched structure

Benefits

- Provides high gloss
- Film forming
- Pour point depressant
- Light / non-greasy aesthetics

Feature

Acid Functionality

Benefits

- High gloss
- Water resistant film former
- Stable in low pH systems
- Anionic emulsifier when neutralized

Feature

Oil Thickening & Rheology Modifier

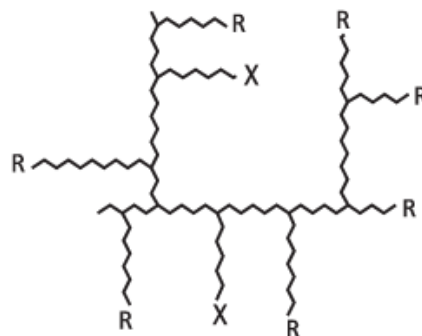
Benefits

- SPF enhancement
- Oil phase stabilizer

Description

PERFORMA™ V polymers are hyperbranched synthetic waxes. These polymers feature a branch-on-branch polymer configuration, which makes them excellent film formers that provide superb shine.

PERFORMA™ V 6112 polymer is an innovative synthetic wax that offers a unique combination of both acid functionality and hyperbranched morphology to provide numerous benefits to personal care formulations.



*X = 2 to 20 carboxylic groups
And R = 2 to 30 hydrocarbon

Typical Properties

Product	Softening Point °C	Viscosity @ 99 °C cP	Acid Value mg KOH/g
Test Method	ASTM D-36	ASTM D-3236	Internal
PERFORMA™ V 103 polymer	74	350	NA
INCI: synthetic wax			
PERFORMA™ V 260 polymer	54	300	NA
INCI: synthetic wax			
PERFORMA™ V 343 polymer	41	130	NA
INCI: synthetic wax			
PERFORMA™ V 825 polymer	Liquid	1200 @25C	NA
INCI: synthetic wax			
PERFORMA™ V 6112 polymer	71	440	80
INCI: C28-52 Olefin/Undecylenic acid copolymer			

Recommended Applications And Use Levels

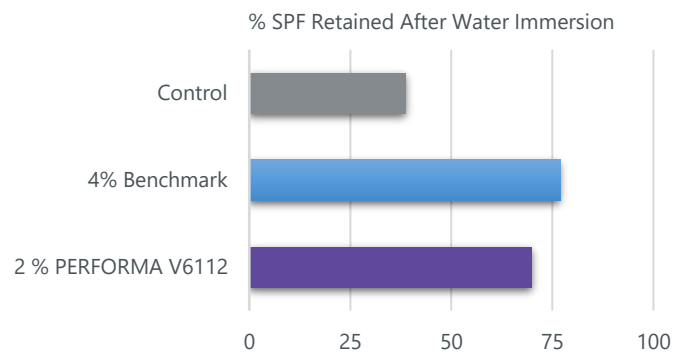
Glossing Agents

PERFORMA™ V polymers can be used in applications from lipsticks to hair serums. In anhydrous systems, they provide gloss even in very matte bases. In hair serum formulations, shine and smoothness are easily achieved on all hair types. Recommended use levels are 1-5%.



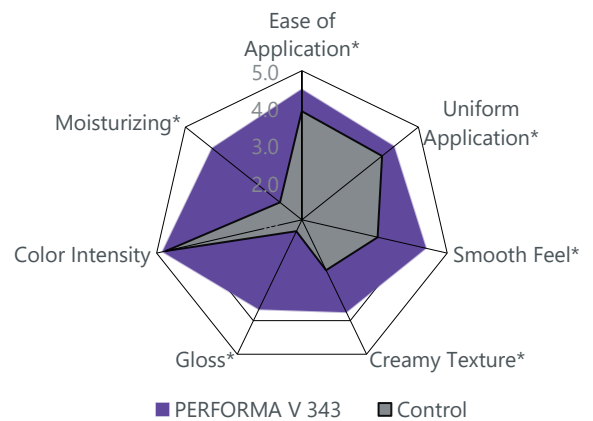
Sun Care

PERFORMA™ V 6112 Polymer enhances sunscreen active performance and provides water resistance in both inorganic and organic sunscreen systems. Recommended use levels are 1-2%.



Long Wear Makeup

PERFORMA™ V 343 polymer has been shown to improve aesthetics of long wear color cosmetics. In addition to improved aesthetics, PERFORMA V 343 was shown to extend the wear properties. Recommended use levels are 1-5%.



Product availability

Form: Pastilles

Packaging: 55 lb bags/40 bags per pallet

nucerasolutions.com



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