



Product Application Guide for New Phase Technologies Polymers

Specialty polymers and waxes to meet your needs

New Phase Technologies offers polymers that improve performance and enhance aesthetics of personal care products. From lipsticks to lotions, our polymers help meet consumer needs while providing multiple benefits for cost efficient formulations. Let us help you match our unique polymers to your specific needs.

Product highlights

Product name	Melting point (°C)	INCI name	Chemical description	Form	Application
PERFORMALENE™ polyethylenes					
400	84	Polyethylene	Linear, low molecular weight polyethylene	White prill	Sticks, hair waxes, sunscreens, creams, lotions, bodywash and facial scrubs
500	87				
PL	88				
655	100			800µ prill powder	
SE2	125				
PERFORMACOL™ alcohols					
350	80	C ₂₀ -C ₄₀ Alcohol	Linear primary alcohols	Pastilles	Sticks, sunscreens, creams, lotions
425	91	C ₂₀ -C ₄₀ Alcohol			
550	99	C ₃₀ -C ₅₀ Alcohol			
PERFORMATHOX™ ethoxylates					
420	90	C ₂₀ -C ₄₀ Pareth -3	Ethoxylated, linear primary alcohols	Pastilles	Emulsifier/compatibilizer for creams and lotions, pigment dispersant
450	90	C ₂₀ -C ₄₀ Pareth -10			
480	88	C ₂₀ -C ₄₀ Pareth -40			
490	70	C ₂₀ -C ₄₀ Pareth -95 (and) polyethylene			
550	99	C ₃₀ -C ₅₀ Pareth -10			
PERFORMACID™ acid					
350	89	C ₂₀ -C ₄₀ Acid (and) polyethylene	Linear saturated carboxylic acid	Pastilles	Sticks, creams, lotions, make-up stabilizer
PERFORMA V™ polymers					
103	74	Synthetic wax	Highly branched polyalpha olefin polymers	Pastilles	Glossing agents and hydrophobic film formers
260	54	Synthetic wax		Pastilles	
343	41	Synthetic wax		Solid	
825	N/A	Synthetic wax		Liquid	
6038		Synthetic wax	Hyperbranched acid functional copolymer	Pastilles	Water resistant sunscreens and color cosmetics
6112	71	C ₂₈ -C ₅₂ Olefin/ Undecylenic Acid Copolymer			

Product and targeted end uses

	Mild abrasives	Film former	Water resistance	Stick hardness	Oil rheology modifier	Water rheology modifier	Dispersant	Control syneresis	Gloss	Emulsion stabilizer	Hair conditioning	Skin conditioning
PERFORMALENE polyethylene	●	●	●	●	●			●				●
PERFORMACOL alcohols		●	●	●	●		● ¹	●		●	●	●
PERFORMATHOX ethoxylates (low EO)		●		●	●		●			●		
PERFORMATHOX ethoxylates (high EO)		●		●		●	●			●		
PERFORMACID 350 acid		●	●	●	●		● ³	●		●		
PERFORMA V 103, 260, 343, 825 polymers		●	●				● ⁴		●			●
PERFORMA V 6112 polymer		●	●				● ³		●	●		
PERFORMA 1480 dispersion						● ²					●	○

Excellent
 Good
 Potential

1 - Synergistic with ethoxylates

2 - Anionic surfactant systems

3 - When neutralized

4 - 825 for pigment dispersant

PERFORMA V, PERFORMALENE, PERFORMACOL, PERFORMATHOX, PERFORMACID is a trademark of Baker Hughes Incorporated.

Because it has become common for purchasers of our products to file patents for specific end uses of our polymer products, Baker Hughes advises its customers to research their particular end use for possible intellectual property issues with respect to third party patents.

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