



PERFORMALENE M Waxes

Specialty polymers and waxes to meet your needs

Chemical nature and physical properties

PERFORMALENE™ M waxes are new, greener, synthetic waxes. These linear, crystalline waxes provide good structuring for many cosmetic oils and offer lower melt points than most traditional polyethylene waxes. This makes them particularly useful in systems which utilize volatile oils, contain heat sensitive ingredients, or are water emulsified.

Typical properties

Product Name INCI: Synthetic Wax	Melt point	Penetration	Viscosity
	°C	dmm	cps @99 °C
PERFORMALENE M 70 wax	69	20	4.0
PERFORMALENE M 80 wax	79	25	4.5
PERFORMALENE M 90 wax	90	25	8.0

Solubility characteristics

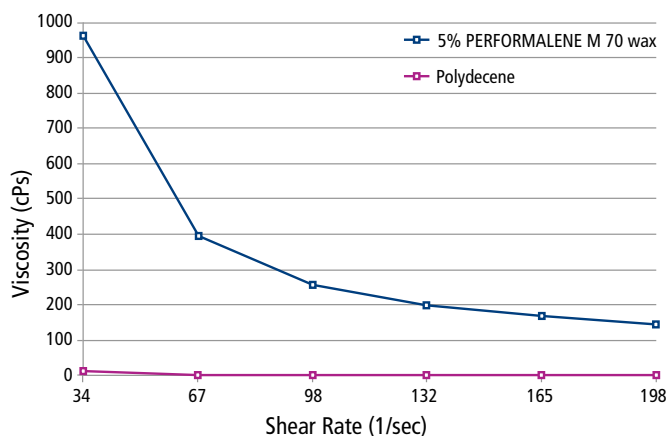
PERFORMALENE M waxes are compatible with most cosmetic oils and esters.

	Water	Mineral oil	Castor oil	Poly-decene	Octyl palmitate	Diisopropyl adipate	Isodo-decane	Cyclo-methicone	Dimeth-icone
M70	NC	C	C	C	C	C	C	C	C
M80	NC	C	C	C	C	C	C	C	C
M90	NC	C	C	C	C	C	C	C	C

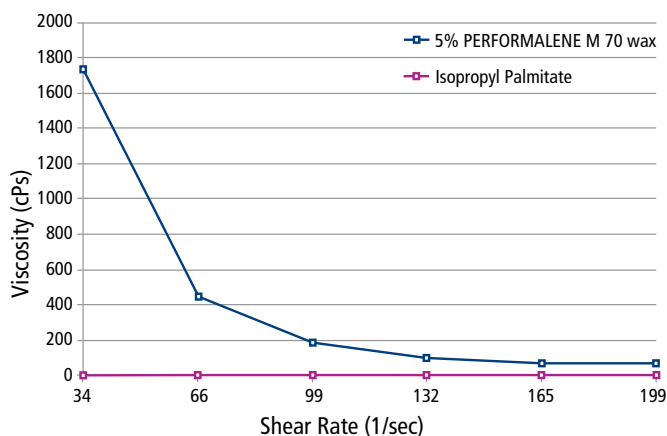
Product Benefits

Feature	Benefits
Low viscosity in melt phase	<ul style="list-style-type: none"> • Easy formulation, mixing into oil phase
Crystallinity, hardness	<ul style="list-style-type: none"> • Structure and stability for sticks • Reduced syneresis • Elegant payout
Lower solubility temperatures	<ul style="list-style-type: none"> • Allows lower process temperature for energy savings • Ability to process more volatile ingredients without need for special equipment

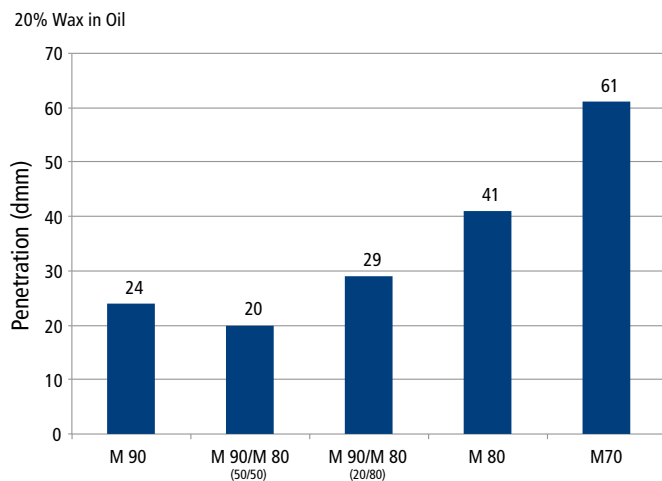
Impact of wax on rheology of polydecene



Impact of wax on rheology of isopropyl palmitate



Hardness of PERFORMALENE M wax in cyclopentasiloxane for stick application



Standard product form and packaging:

Form: Prills

Packaging: 25 KG fiber drums.
16 oz samples available upon request.

For more specific information, please contact your Baker Hughes/
New Phase Technologies representative.

PERFORMALENE M 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.

Disclaimer of Liability: This information is provided for general information purposes only and is believed to be accurate as of the date hereof; however, Baker Hughes Incorporated and its affiliates do not make any warranties or representations of any kind regarding the information and disclaim all express and implied warranties or representations to the fullest extent permissible by law, including those of merchantability, fitness for a particular purpose or use, title, non-infringement, accuracy, correctness or completeness of the information provided herein. All information is furnished "as is" and without any license to distribute. The user agrees to assume all liabilities related to the use of or reliance on such information. BAKER HUGHES INCORPORATED AND ITS AFFILIATES SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES FROM ANY CAUSE WHATSOEVER INCLUDING BUT NOT LIMITED TO ITS NEGLIGENCE.

www.bakerhughes.com/polymers

www.newphasepolymers.com

© 2012 Baker Hughes Incorporated. All rights reserved. 35754 (09/12)

NEW PHASE
Technologies

