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

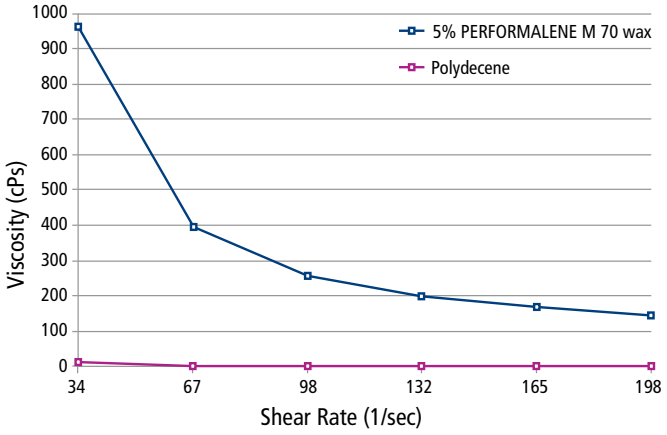
PERFORMALENE M waxes are compatible with most cosmetic oils and esters.

	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

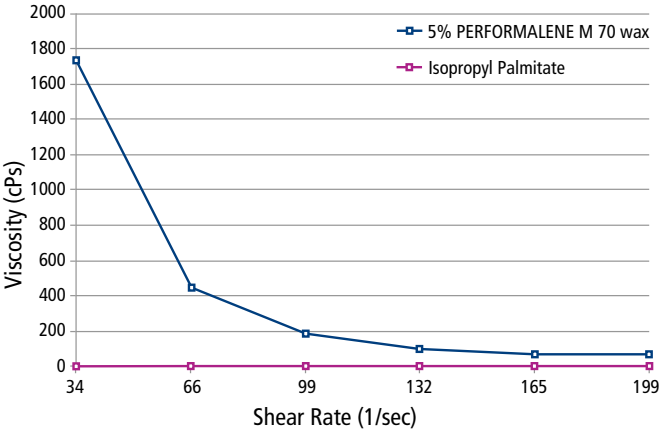
Product Benefits

Feature	Benefits
Low viscosity in melt phase	• Easy formulation, mixing into oil phase
Crystallinity, hardness	• Structure and stability for sticks • Reduced syneresis • Elegant payout
Lower solubility temperatures	• Allows lower process temperature for energy savings • Ability to process more volatile ingredients without need for special equipment

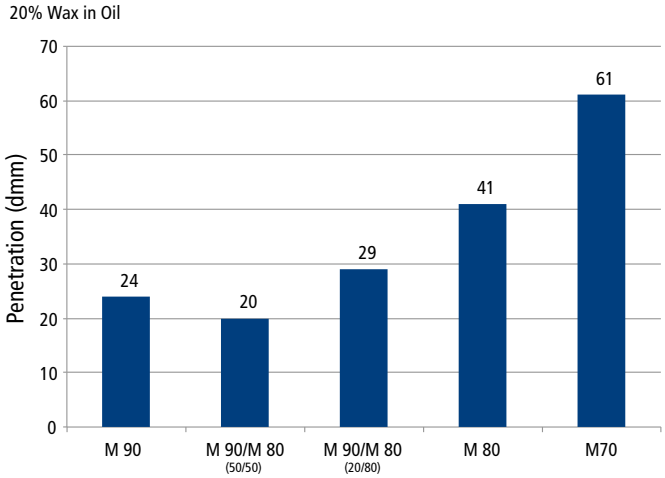
Impact of wax on rheology of polydecene



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.

NEW PHASE Technologies

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www.bakerhughes.com/polymers www.newphasepolymers.com