

Siliconyl Polyethylene



Siliconyl Polyethylene is a mixture of polymers with unique formulating advantages. The starting point is a low melt point polyethylene to which silicone molecules are added.

Applications:

Creams, Lotions, Sun Care, Hair Care, Lipsticks, Lip Balms, Make-ups, Mascaras, Eye Liners, Stick Pencils, and Antiperspirants.

Advantages:

Siliconyl Polyethylene is used as a thickener and viscosity modifier. It is used to add hardness and slip, as a gelling agent, and as a melting point modifier.

Regulatory:

INCI Name: Polyethylene, Stearoy Dimethicone

CAS#: 9002-88-4, 68554-53-0

Wax#	Wax Name	Melting Point	Acid Value	Saponification Value	Congeaing Point	Color
189	Siliconyl Polyethylene	–	–	–	65 - 75°C	White
447	Siliconyl Polyethylene PC-38	–	–	–	60 - 75°C	White
233	Siliconyl Candelilla	62 - 75°C	<3.5	45 - 65	–	Light Brown to Red Brown
163	Siliconyl Beeswax	62 - 72°C	<4.5	70 - 90	–	White to Light Yellow
355	Siliconyl Carnauba	78 - 85°C	<8	60 - 80	–	Light Brown to Red Brown

Specific waxes that are most appropriate for this category have been highlighted here