

Capture the color

PURESIL™ TMS film formers

PURESIL™ TMS DM 30

INCI: Dimethicone (and) Trimethylsiloxysilicate

PURESIL™ TMS IDD 50

INCI: Trimethylsiloxysilicate (and) Isododecane

Today's consumers expect cosmetics to do more. Whether they are color cosmetics, sunscreens, or skin creams, long lasting efficacy against water, sebum and wear is a must.

PURESIL™ TMS film formers are trimethylsiloxysilicate (silicone MQ resin) delivered in non-volatile dimethicone or volatile isododecane.

The unique 3D molecular structure of MQ resin enables film forming capability and imparts substantivity to skin, rendering the desired non transfer, water and oil resistance to cosmetics.

PURESIL™ TMS Film Formers are designed for personal care applications such as color cosmetics, sun care, and skin care where long lasting benefit is desirable.

PURESIL™ TMS film formers typical properties

| Product Name | Properties | | | |
|---------------------|-----------------|-------------------------|--------------|--------------|
| | Viscosity (cst) | Refractive index (25°C) | % D4, D5, D6 | Carrier |
| PURESIL™ TMS DM 30 | 400 - 1000 | 1,4065 - 1,4085 | < 0,1 | Non-volatile |
| PURESIL™ TMS IDD 50 | < 50 | 1,4160 - 1,4200 | < 0,1 | Volatile |

Benefits



Film forming



Pigment dispersion



Water and oil resistance



Transfer resistance



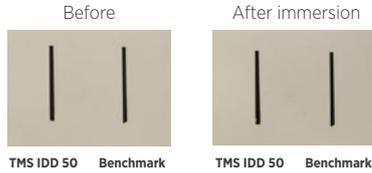
Long lasting



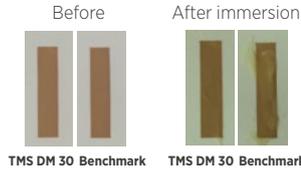
Smooth finish

Water and oil resistance in cosmetic formulation

TMS Resins performed better than or the same as the benchmarks.



Eyeliners with 4% TMS IDD 50 immersed in water for 24 hrs.



Foundations with 7,5% TMS DM 30 immersed in Jojoba oil for 7 hrs.



Lip colors with 46% TMS IDD 50 immersed in Jojoba oil for 24 hrs.

Long wear and transfer resistance

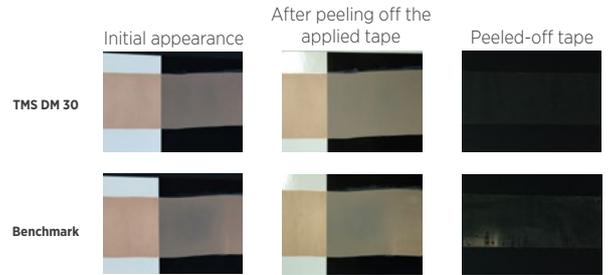
Transfer resistance test: Lip color with 46% TMS IDD 50



Lip color with 46% TMS IDD 50 exhibited non-transfer whereas lip color with 20% dimethicone exhibited some transfer.

Transfer resistance

Tape peel off test: Foundation with 7,5% TMS DM 30

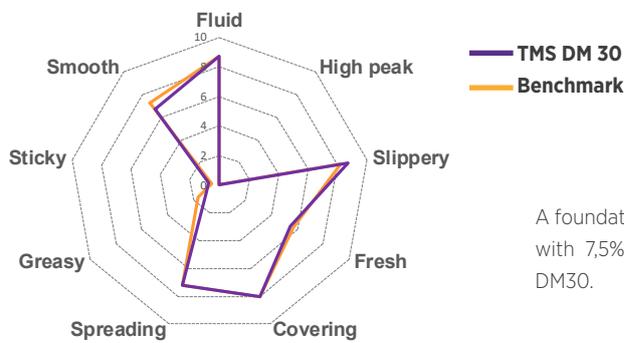


Procedure:

Apply transfer tape on a dried foundation film (60 um thickness) on Leneta paper. Place an 880g weight on the tape for 15 seconds. Peel off the tape and visually assess foundation transferred.

TMS DM 30 had less transfer than benchmark.

High coverage and ease of application with a smooth finish



EBI Touch assessment

A foundation formulated with 7,5% Puresil™ TMS DM30.

Sensory profile

The foundation formulated with Puresil™ TMS DM 30 has high coverage, spreads easily and leaves the skin smooth without a sticky or greasy touch, similar to the same formula prepared with benchmark.