



Breathable Nail

The benefits of O₂ Permeable Resin

1. Minimal stress to fingernails

2. Feels light when applied

3. Minimal tightness or tautness

Nail Polish VS Halal

For some Muslim men and women, wearing traditional nail polish is not an option. The act of wudu, a ritual ablution performed before prayer, requires that water must touch every part of the body; nail polish, it's believed, creates a barrier between the skin and the water.

<https://www.al-islam.org/ritual-and-spiritual-purity-sayid-muhammad-rizvi/ii-wudu>

Halal Nail Polish in the market



Brand: MAYA



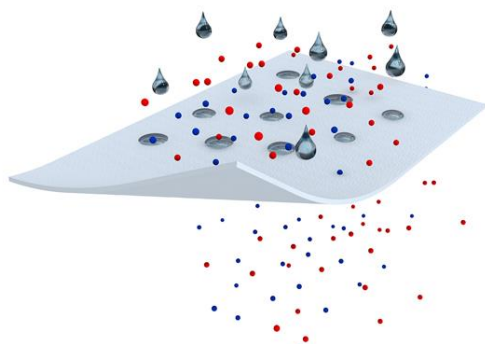
Brand: TUESDAY IN LOVE



Brand: ORLY

Keyword
“Breathable”

“Nitrocellulose” is typically used as the membrane former for nail enamel. The “nitrocellulose” resin is an important constituent of nail enamel, thanks to its strong coating film intensity with excellent smoothness and luster. However, it imposes significant **stress** on the nail causing a cooped-up feeling because of its poor permeability in terms of oxygen and water vapor.



O2 Trans Factor

“**O2 Trans Factor**” is a jointly developed copolymer of acrylic and silicon resins, similar to those used for contact lenses, etc., which provides **excellent aqueous and oxygenous permeability**. Commercial production of nail-friendly enamel was rendered possible into this resin, with a particular focus on its application to nail enamel.

New ingredient: O₂ Permeable Resin

Product on the market: COSME DECORTE AQ



WT044



SP046



GD047



GD049



GY050



PU142



PU143



PU144



BE345



BE346



RD440



RD441



RD442



RO641



GR743



PK848



PK849

AQ Pure Glaze Nail Color

11 colors: 3,000JPY each (3,150JPY including tax)

Colors

A lustrous finish brimming with radiance
 Captivating colors, lightweight coating.
 Nail color for ultimate beauty at your fingertips.
 The glossy film-forming ingredient,
 O₂ Trans Factor,
 Creates a clear, uniform film,
 For skin-enhancing colors and intense, lucid brilliance.
 The high oxygen permeability minimizes stress to the nails
 And feels light when applied.



New ingredient: O₂ Permeable Resin

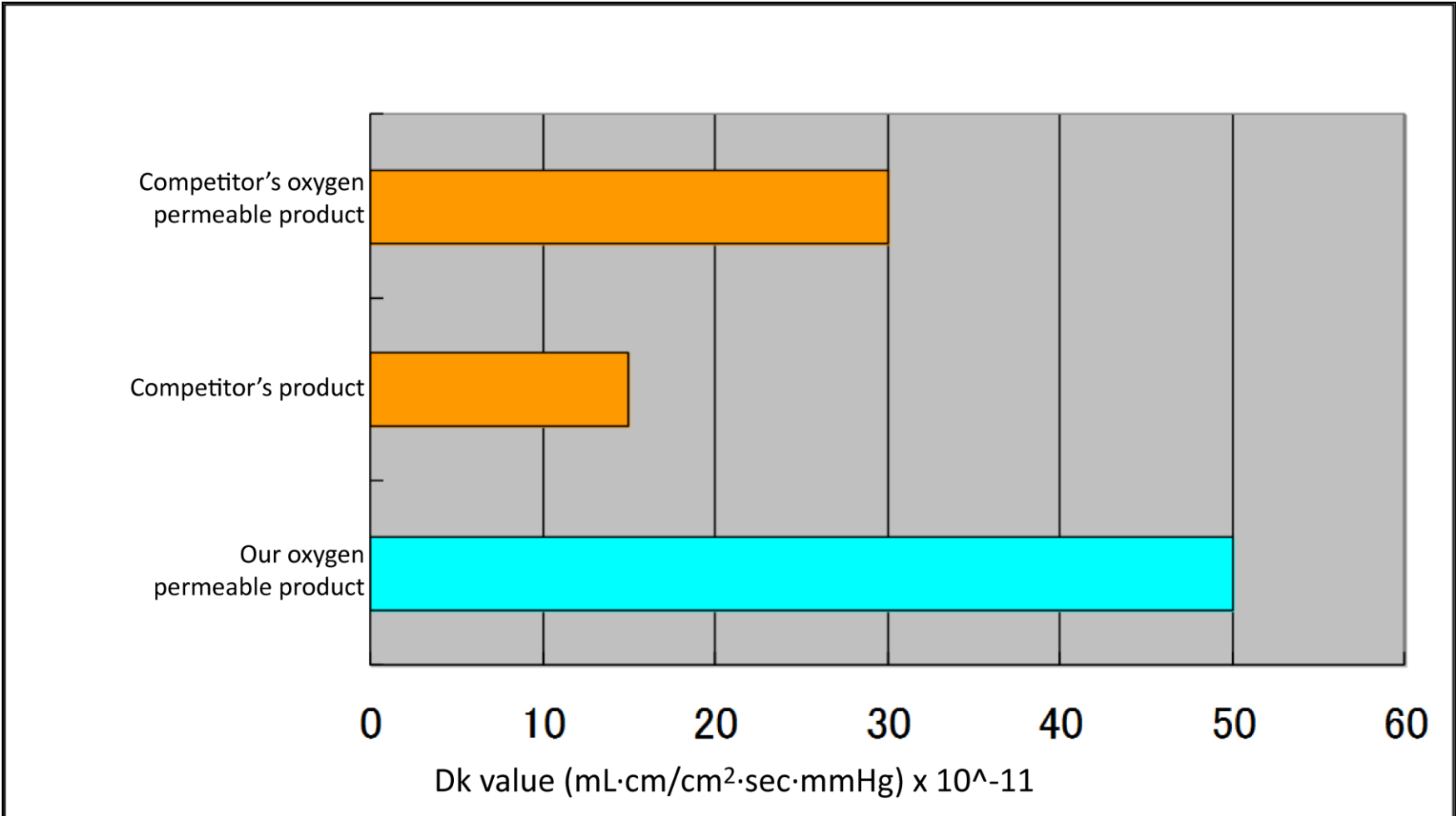
Product Information

NEW

Breathable Resin

INCI	%
Butyl Acetate	70-80
Acrylates/Tris(trimethylsiloxy) Silylpropyl Methacrylate Copolymer	20-30

Comparison of O₂ permeability



Observation of film shrinkage upon drying

A fixed amount of each sample was dropped onto the film and allowed to air dry for 2 hours. The film was then observed and compared.

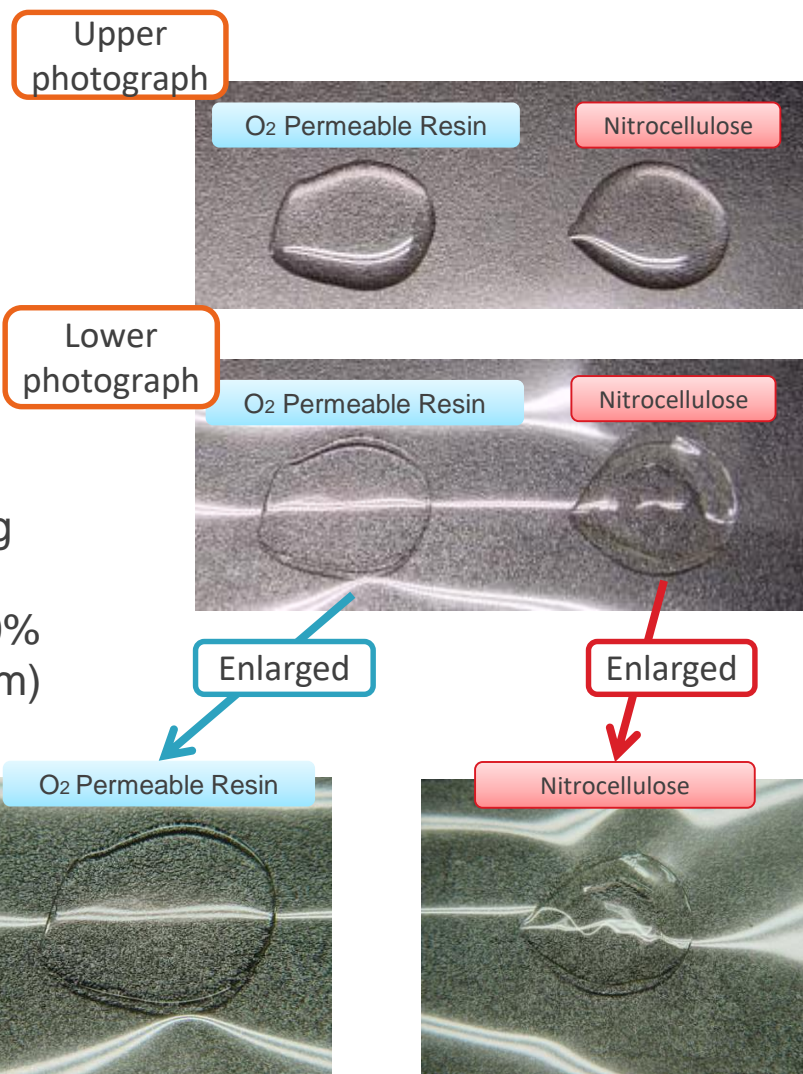
O₂ Permeable Resin and nitrocellulose both contained 25% solid content.

Upper photograph: 0.25 g each before drying

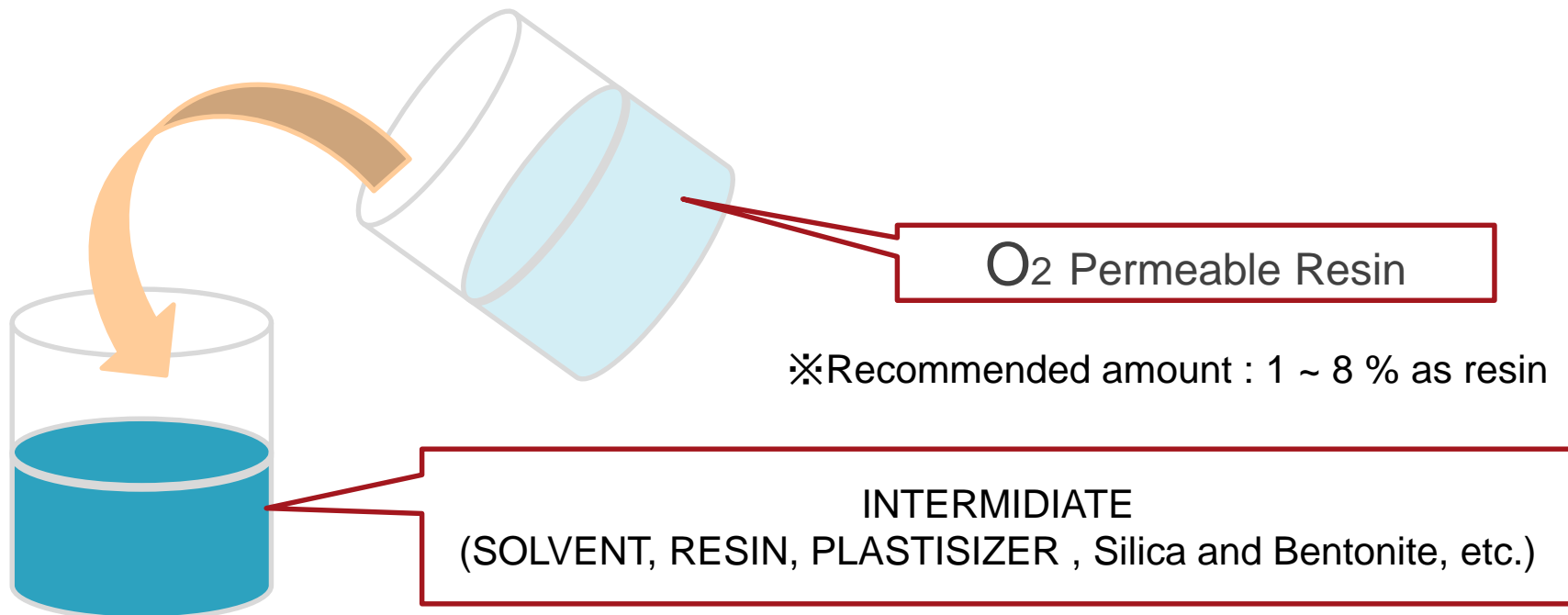
Lower photograph: After drying 2 hours in room temperature 27°C, humidity approx. 60%
(Film thickness on drying: Approx. 25 μm)

Nitrocellulose demonstrated marked shrinkage and peeling off from the film upon drying.

By comparison, O₂ Permeable Resin show some waviness but doesn't peel off.



Guideline How to Use



1. Add O₂ Permeable Resin into intermediate (Base) while dispersing.
2. Disperse it for 3 to 5 minutes until O₂ Permeable Resin is dispersed completely
3. Add Color phase

Notice

- In case of viscosity dropping, please use Silica or Bentonite to adjust viscosity.
- Don't use in water based formulation.

Fin...

