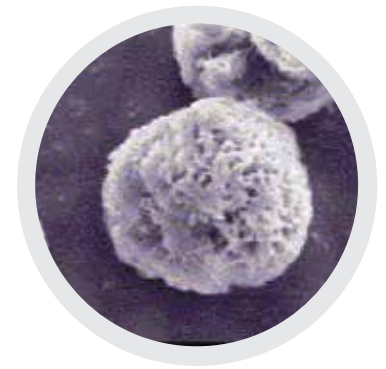
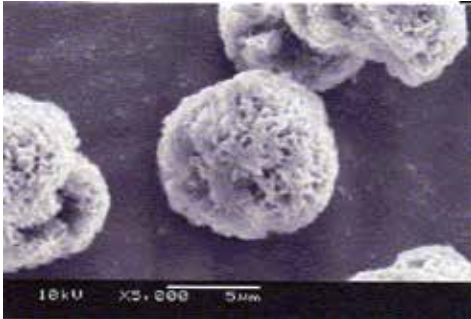


# Toray TR-1

## Nylon-6 Powder



For use in cosmetic and personal care products.  
Material has nice skin feel, superior absorbency, and offers good optical benefits.

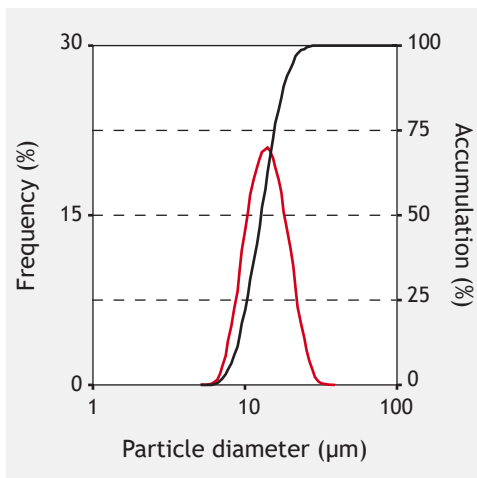


SEM picture of TR-1

### The advantages of this powder include:

- Hydrophilic - disperses well in water
- Porous - high oil absorption (112g/100g)\*
- Narrow particle size distribution - average particle size : 13  $\mu\text{m}$
- Large surface area
- Can absorb and/or deliver different materials, such as titanium dioxide, semi-precious gemstones, colorants, antimicrobials, actives, etc.

TR-1 Particle size distribution



TR-1 water dispersibility (jar on the right) compared to competitive Nylon-6 (left)



COMPETITOR

TR-1

TR-1 can be used in many types of cosmetic formulations, especially for oil absorption and delivery.

#### Recommended Applications

- Skin care products, creams, lotions, gels, hydro alcohol systems
- Makeup products including hot pours, cream-to-powder foundations, liquid foundations, pressed powders, lipsticks, eye shadows, etc.
- AP/Deo applications
- Hair care

\*Oil Abs: ASTM, D281-84

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KPP-114

## Pressed Powder with TR-1

### Part 1

● SERICITE GMS-4C - Kobo Products: <i>Mica</i>	70.48%
● TR-1 - Toray/Kobo Products: <i>Nylon-6</i>	10.00%
● BTD-11S2 - Kobo Products: <i>Titanium Dioxide</i> (And) <i>Triethoxycaprylylsilane</i>	7.00%
● ZINC MYRISTATE - Kobo Products: <i>Zinc Myristate</i> (And) <i>Triethoxycaprylylsilane</i>	2.00%
● BYO-11S2 - Kobo Products: <i>Iron Oxides (CI 77492)</i> (And) <i>Triethoxycaprylylsilane</i>	1.00%
● BRO-11S2 - Kobo Products: <i>Iron Oxides (CI 77491)</i> (And) <i>Triethoxycaprylylsilane</i>	0.86%
● BBO-11S2 - Kobo Products: <i>Iron Oxides (CI 77499)</i> (And) <i>Triethoxycaprylylsilane</i>	0.46%
● Methyl Paraben NF - International Sourcing: <i>Methylparaben</i>	0.10%
● Propyl Paraben NF - International Sourcing: <i>Propylparaben</i>	0.10%

### Part 2

● Lexol® PG-865 - Inolex Chemical Company: <i>Propylene Glycol Dicaprylate/Dicaprate</i>	2.50%
● Xiameter® PMX-200 Silicone Fluid 20CS - Dow Coming: <i>Dimethicone</i>	2.50%
● Xiameter® PMX-200 Silicone Fluid 350 CS - Dow Coming: <i>Dimethicone</i>	2.00%
● SS4267 - Momentive: <i>Dimethicone (And) Trimethylsiloxysilicate</i>	1.00%

### Manufacturing Procedure

1. Micropulverize Part 1 until color is fully developed.
2. Add Part 2 to Part 1.
3. Blend well.
4. Press at 700 psi.

### Description

This pressed powder features TR-1 which diffuses light to cause a soft focus effect. The light scattering properties help to diminish the look of fine lines on the skin, while letting enough light through so the look of the skin is natural. SERICITE GMS-4C is added to give a glide-on application. Kobo's Silane (11S) treatment helps to provide this pressed powder with adhesion to the skin and gives the formula a creamy feel. ZINC MYRISTATE is a Dry binder that also contributes to great feel and adherence on the skin.