▶ Application

Raw materials for cosmetics, such as powder foundation and antiperspirant

Characteristics

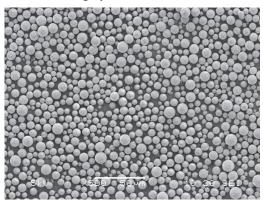
- •Non-yellowing spherical cross-linked polyurethane beads
- •Functional materials, capable of controlling polyurethane resin composition and particle size (from several μ m to several tens of μ m) with our original synthesis technology
- •Capable of controlling shore hardness (between A50 and A100 according to JIS) because of our molecular design offering great flexibility/elasticity
- •Excellent in mechanical strength/rubber elasticity/flex-resistance/cold-resistance/abrasion-resistance/oil-resistance because of cross-linked polyurethane particles; also excellent in heat-resistance/light-fastness because of non-yellowing polyurethane
- •Expected effects as cosmetic application :
- (1)Pliability (soft touch feeling similar to human skin)
- (2) Hiding of wrinkles/pores; excellent rollability of beads on skin(spreadability/slipperiness)
- (3)Skin transparency(refractive index=1.49), soft-matte finish (natural look)
- (4)Excellent absorptivity of sebum (oleic acid)

▶ Representative Products

Produce name item	Average particle size (µm)	Circula- rity	True specific gravity (g/cm³)	Bulk specific gravity (g/ml)	Non-volatile component (%)	Melting point (°C)	Degree of hardness (JIS-A)	Dynamic friction coefficient (µ)
UCN- 8070CM Clear	7	0.96	1.15	0.40	99≦	250≦	74	0.50≦
UCN- 8150CM Clear	15	0.96	1.15	0.48	99≦	250≦	74	0.36
Measuring method	Laser diffraction	Particle shape analysis	JIS K7112	JIS K6720	Infrared moisture meter	Thermome- chanical analysis	JIS K7215	Surface friction testing equipment

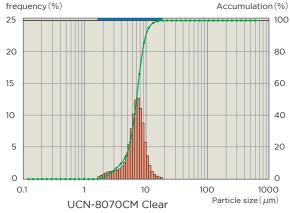
▶Evaluation Results

Electron micrographs



UCN-8070CM Clear

Particle size distribution curve



*Above is our internal experimental data. It is not guaranteed.