Application

Raw materials for cosmetics, such as powder foundation and antiperspirant

Characteristics

•Non-yellowing spherical cross-linked polyurethane beads

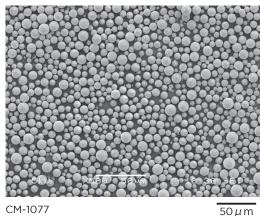
- •Functional materials, capable of controlling polyurethane resin composition and particle size (from several μ m to several tens of μ m) with our original synthesis technology
- •Capable of controlling shore hardness (between A50 and A100 according to JIS) because of the molecular design offering flexibility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

Representative Products

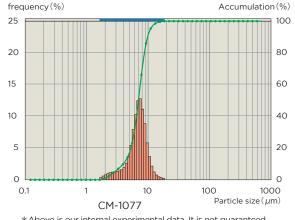
Produce name item	Average particle size (μm)	Circula- rity	True specific gravity (g/cm³)	Bulk specific gravity (g/ml)	Non-volatile component (%)	Melting point (°C)	Degree of hardness (JIS-A)	Dynamic friction coefficient (µ)
CM-1077	7	0.96	1.15	0.40	99≦	250≦	74	0.50≦
CM-1157	15	0.96	1.15	0.48	99≦	250≦	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 micrograph



Particle size distribution curve



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

