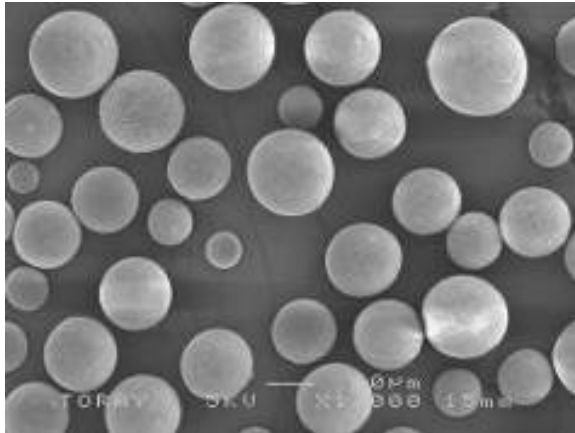
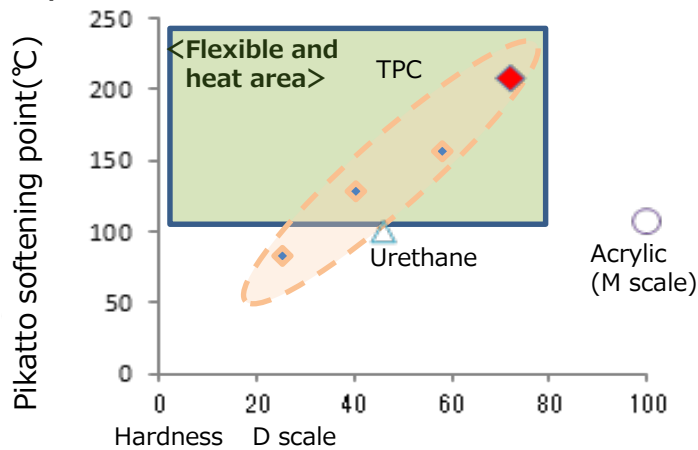


【SEM image】



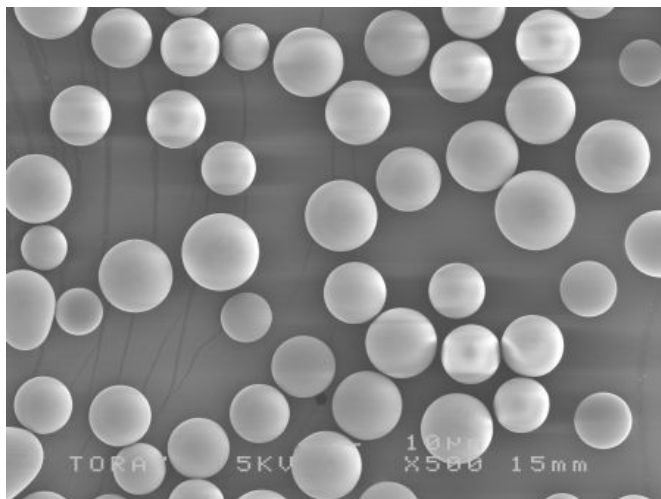
Material	Thermoplastic Elastomer
Average of particle size (μm)	5 – 60 ※
Form of sample	Powder or hydrous cake
Specific gravity	1.28
Glass transition Temp. (°C)	50
Melting point (°C)	220
Thermal reduction Temp. (°C)	362

There is a possibility to grant of wear resistance and sliding properties, also the improvement of the operating environment temperature and the processing temperature width.



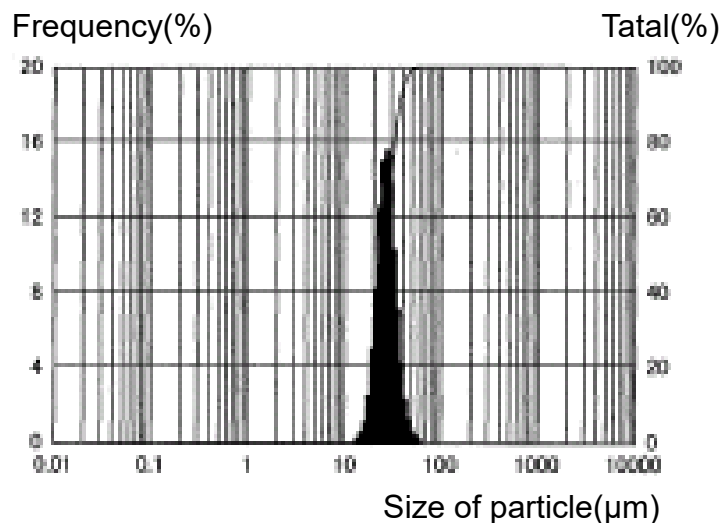
※ Usually, We have the sample of 12 micron in average of particle size.

【SEM image】



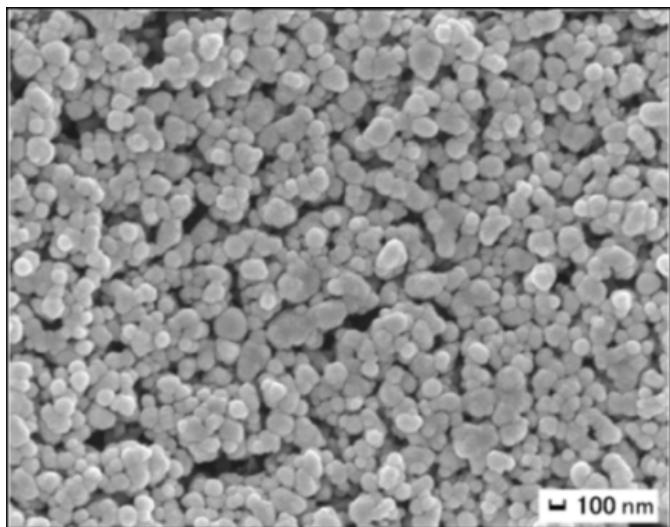
Material	Polyether Sulfone resin
Average of particle size (μm)	5 – 60
Form of sample	Powder※
Specific gravity	1.37
Glass transition Temp. (°C)	225
Melting point (°C)	–
Thermal reduction Temp. (°C)	442
Refractive index	1.65

【Particle size distribution】



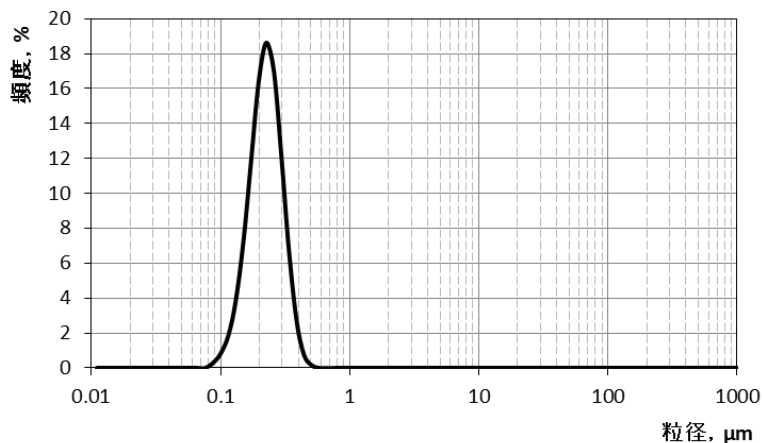
- ※Average of particle size adjustable to above range.
- ※Usually , we have the sample of 30μm in average of particle size.

【SEM image】



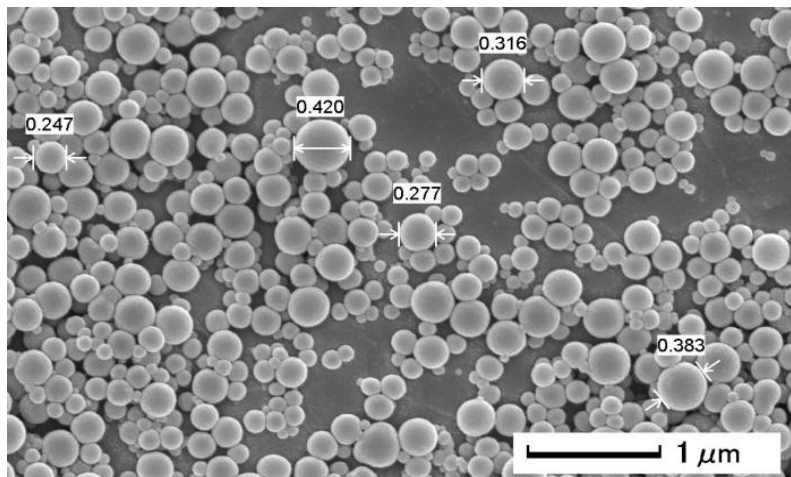
Material	Polyvinylidene fluoride
Average of particle size (μm)	0.2 – 0.5
Form of sample	Cake / Dispersion ※
Specific gravity	1.75 – 1.78
Melting point (°C)	151 – 178

【Particle size distributin】

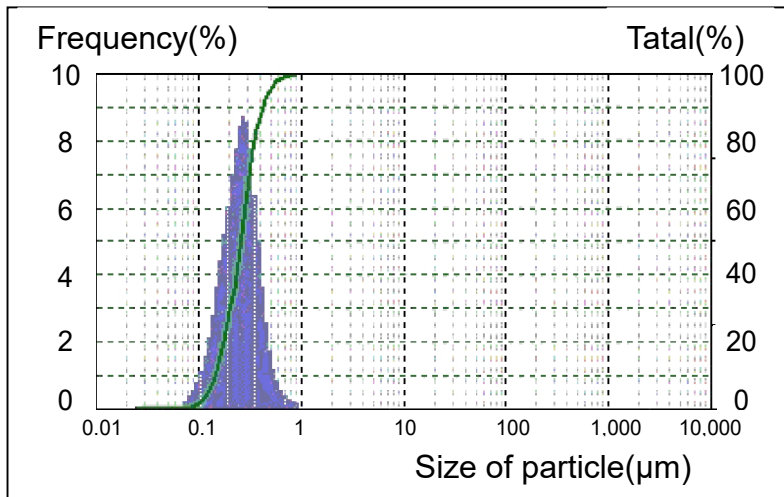


- It is possible to make PVDF whose molecular weight is about one million.

【SEM image】



【Particle size distribution】



Material	Epoxy resin (Cured)
Average of particle size (μm)	0.2 – 0.3 5 – 40
Form of sample ※	Powder or water dispersion
Specific gravity	1.25
Glass transition Temp. (°C)	130
Melting point (°C)	–
Thermal reduction Temp. (5%) (°C)	300
Refractive index	1.55 – 1.61

※Micron particle : Powder.

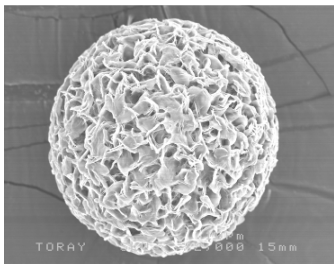
Submicron particle : Water dispersion.

※Concentration of water dispersion is about 30%.

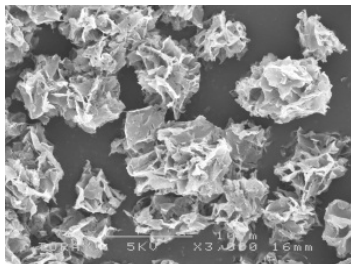
※Now, Because of the lab corresponding level, since it may take time to provide us. Please understand.

【SEM image】

Low oil absorption

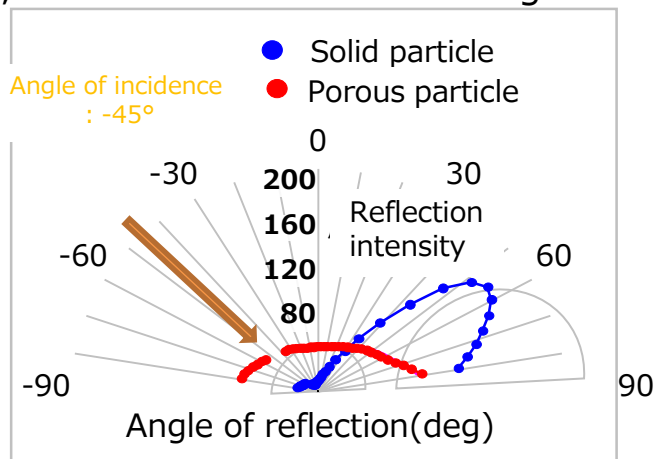


High oil absorption



【Form : porous】

The reflected light in all directions.
And, can be brushed and matte grant.

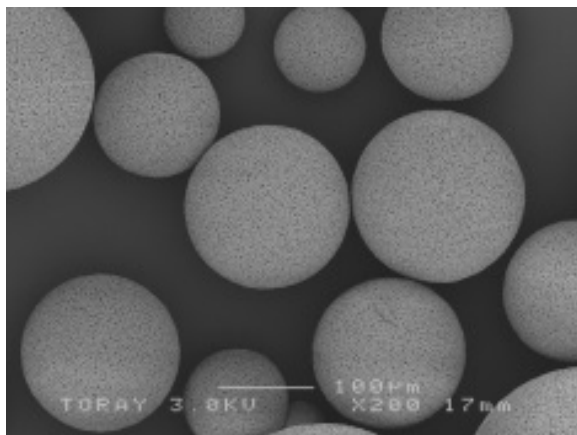


Material	Polylactic acid
Average of particle size(μm)	3 0
Form of sample	Powder※
Specific gravity	1 . 2 6
Bulk density (g/cm ³)	0 . 1 8
Glass transition Temp. (°C)	6 0
Melting point (°C)	1 6 0
BET Specific surface area (m ² /g)	4 . 3
Oil absorption of linseed oil (ml/100g)	1 4 4

※Measured value : In case of 30μm particle
Average of particle size is adjustable to the range of 5-30μm

※Solid particles also available .

【SEM image】



Material	Ethyl cellulose (Ethyl degree: 49%)
Average of particle size(μm)	1 0 0—2 0 0
Form of sample	Powder
Specific gravity	1 . 1 4
Bulk density (g/cm ³)	0 . 4 3
Melting point (°C)	1 6 0
Oil absorption of linseed oil (ml/100g)	1 0 0—1 5 0

Drug loading image



Include drug
inside the
porous

- It is possible to include drug inside the porous as a base material for the formulation used in tablets, granules.
- Average of particle size can control in the above range.
- Ethyl cellulose is the material that has been recognized as pharmaceutical excipients.

Nylon particle

Toray Industries, Inc. sells Nylon6, Nylon12 particle as products except for 「Toraypearl[®]」 (Developed products), as cosmetic applications (slip-improving agent of the foundation, etc.), it has been widely used.

	SP		TR	
Material	Nylon12		Nylon6	
Form of sample	Powder		Powder	
Average of particle	5	10	13	20
Spherical of particle	Spherical		Nearly spherical (porous)	
Specific gravity	1.02		1.13	
Melting point	165°C		210~220°C	
Thermal reduction Temp.(5%)	421°C		403°C	

