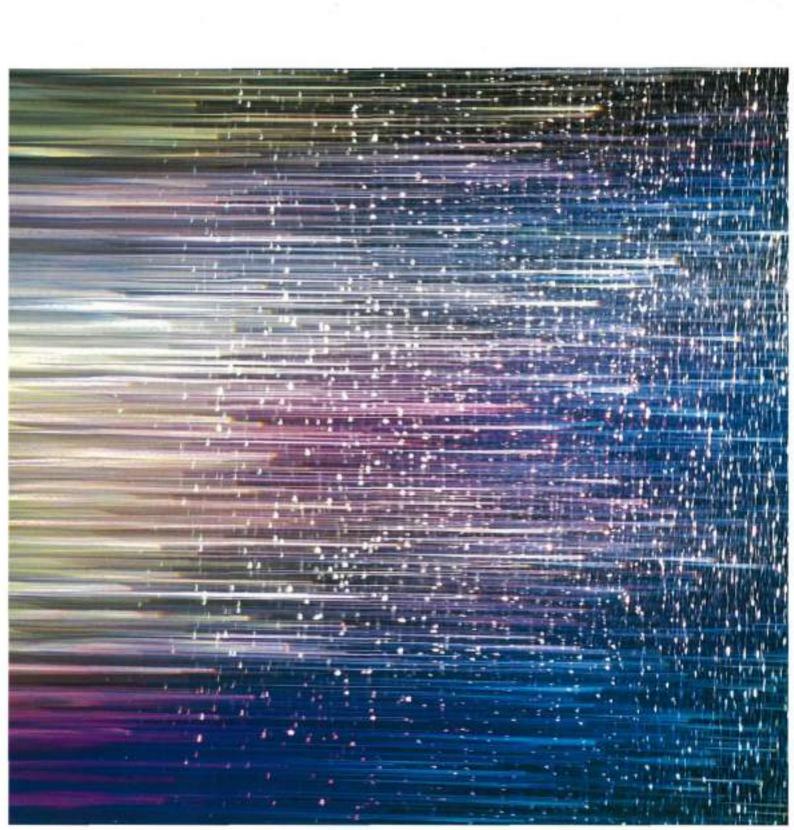
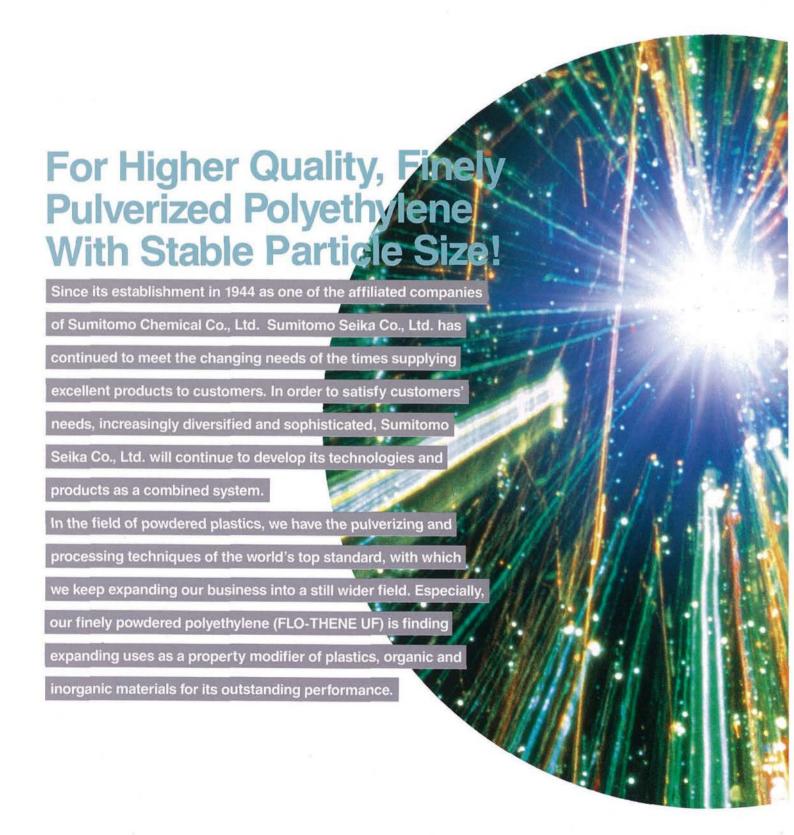
Polyethylene Fine Powder

FLO-THENE UF.

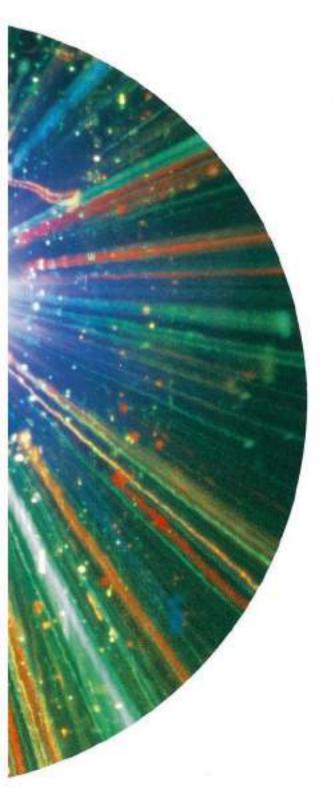




Polyethylene Fine Powde



FLO-THENE



Characteristics

- FLO-THENE UF is a fine polyethylene powder. The typical particle size is 25 µ, and there is almost no variation of particle size distribution between production lots.
- FLO-THENE UF has a high purity and retains the excellent properties of raw polyethylene.
- 3. FLO-THENE UF easily disperses to form water and solvent type dispersants.
- FLO-THENE UF has good adhesive properties especially suitable for the heat sealing of papers and fibers.

Grages and Properties

Property	Test Method	Unit	UF-15	UF-20	UF-80
Met low rate index	JIS K6760-1981	g/10min.	1.5	20	75
Density	JIS 105760-1981	g/cm²	8922	0.948	6918
Tensile Strength at Break	JIS. 105760-1981	kg/cm/	170	130	90
Elangation	JIS K6760 1981	46	600	550	150
Hardress	ASTM D2240-68	Share-D	47	340	43
Torsional Rigidity	ASTM 0747-70	kg/cm/	2.200	1,600	1,500
Melting Point	DSC Nethod	*C	107	105	106
Vicet Saftening Point	ASTM D1525-70	no.	96	83	76

Chemical Properties

FLO-THENE UF exhibits outstanding resistance against acids, alkalies, inorganic salts, and their solutions. It also exhibits low water absorption rate (below 0.01% at 25°C for 24 hours) and will not dissolve in solvents below 60°C.

Slight whitening and loss of clarity are obserbed after dipping in turbin oils and gasolines for about 30 days.



Electrical Properties

FLO-THENE UF has such outstanding electrical properties as low dielectric loss, electric conduction rate, dielectric contstant and high dielectric strength, etc.

Surface Resetviry	Q-on	51011
Delectric Strength	HWhom phortune methods	40

Thermal Properties

 Heat Conductivity 20°C
 0.29 Kcatimi+tr°C

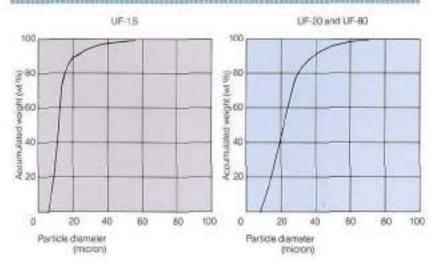
 Specific Heat (solid) 20°C
 6.55 catig°C

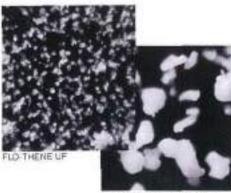
 Specific Heat (liquid) 120-140°C
 0.70 catig°C

 Coefficiency of Linear Thormal Expansion 20°C
 2.2 × 10°° cmicmi+°C

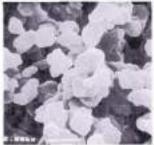
 Decomposition Point (by DSC in recuum)
 280−300°C

Distribution of Typical Particle Size





FLO-THENE (general grade)



FLO-THENE UF-20

Applications

Modification of Resins FLO-THENE UF added to resins can modify their properties.

Polyester Resins

Adding a very small quantity of FLO-THENE UF to unsaturated polyester molding materials will modify its physical properties.

FLO-THENE UP is an especially effective additive for SMC (Sheet Molding Compound) and BMC (Bulk Molding Compound) improving their shrinkage, mold releasing, crack resistance moisture proof, and filler dispersion properties.

Other Plastic Materials

FLO-THENE UF is used for casting grade epoxy resins, polystyrene, ABS, phenotic and PVC resins for property improvement. When used for casting grade expoxy resins, flexibility is improved. Added in polystyrene it improves flowability and in ABS resins it improves processability. Likewise, rigid PVC has flowability and impact resistance improved. It can also be used as a miscible agent for composite plastics materials.

Coating and Adhesive

Processing of Papers and

Textile Fibers

A coating of a FLO-THENE dispersant to papers or fibers provides a fine, thin film without pinholes. Coating craft paper woodfree paper and glassine paper will provide excellent water proofing and chemical resistance and also heat-sealing ability. By applying FLO-THENE powder to fibers and telts, they can be glued and processed with no deterioration in quality.

Metal Coating

FLO-THENE UF, in either form of powder or dispersant, can coat metal surfaces through electro-static coating, spray coating and other methods.

Additive to Paints,

Pigments and Inks

FLOTHENE UF will modify the physical properties of paints, pigments and inks. If a small amount of FLO-THENE is added to a paint, it will diminish slipperness and luster. Addition to ink will improve abrasion resistance. It is also used as pigment dispersion agent.

Other Applications

In addition to those applications introduced here, FLO-THENE UF also finds an extensive range of applications including cosmetics (scrubbing agent), rubbers (anti-blocking agent, processing aid) and lubricating oil (sliding property improvement) and many others.



Water Tank



Bathtub



Washstand



Purificatory Tank



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