3M™ Dyneon™ PTFE Micropowder J14

Features and Benefits

- Low molecular weight PTFE powder
- Agglomerate particles
- Friable (can be broken down into smaller particles)
- High specific surface area
- Broad chemical resistance and temperature range of use

Used as an additive to:

- Reduce coefficient of friction or impart low surface energy
- Thicken or increase viscosity of matrix material

Note: Data in this document are not for specification purposes.

Typical Properties

Property	Test Method	
Average Particle Size	Laser Diffraction	6 µm
Hegman Particle Size	Grind Gauge	2 µm
Minimum Bulk Density	ASTM D4895	250 g/l

Processing Recommendations

3M™ Dyneon™ PTFE Micropowders can be used as additives in many applications and at concentrations typically from 5 to 20%. Homogeneous incorporation is the single most important process and application consideration. Due to poor flow properties of the micropowder it is recommended that the micropowder and matrix material both be at a temperature below 30°C (86°F). However, in the case of thermoplastic blends, the micropowder may be incorporated into the melt. Dyneon PTFE Micropowder J14 can be dispersed using a variety of mixing equipment. Depending upon the application, high speed mixers and tumble blenders have been successful for dry blends, while propeller mixers work well for wet mixtures such as solvents and oils. Glass bead mills should be used for relatively high viscosity mixtures and roll mills for very high viscosity applications, such as lubricating greases and oils.

Supply Form

PTFE Micropowder J14 is supplied in 50 lb. drums with a polyethylene liner.

Storage

PTFE Micropowder J14 has a 3 year shelf life. It should be kept in a clean and dry place in its original unopened container at temperatures below 30°C (86°F).

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Please recycle. Printed in USA.

Issued: 2/12 7849HB
98-0504-1211-7