3M™ Dyneon™
PTFE
TF 9205

Features and Benefits

- Low molecular weight PTFE produced by thermal degradation
- Rigid particle morphology

Used as an additive to:

- Improve non-stick properties
- Reduce coefficient of friction
- Increase wear resistance of matrix material

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

Micropowder Properties

Property	Test Method	
Average Particle Size	ISO 13321	8 µm
Bulk Density	ASTM D4895	400 g/l
Specific Surface Area BET	DIN 66132	2 m^2/g
Melting Peak Temperature	ASTM D4591-97	325°C (617°F)
Melt Flow Rate*	ISO 1133	12 g/10 min
Melt Viscosity	Calculated see footnote*	Approx 10^2 Pa • S

* The measurements are carried out at 372°C (701°F) (test weight 2.16 kg, die diameter 1.0 mm). The melt viscosity of micropowders can be calculated from the melt flow rate (MFR) by Hagen-Poiseuille's law to obtain an indication of molecular weight.

Processing Recommendations

3M™ Dyneon™ PTFE TF micropowders can be used as additives in many different applications and at concentrations typically from 5 to 20%. Homogeneous incorporation helps ensure optimum performance. Because of its small particle size coupled with good free-flowing properties, Dyneon PTFE TF 9205 exhibits very good metering behavior and can be easily incorporated into other materials – even in dry blends.

Supply Form

PTFE TF 9205 is supplied in 25 kg cartons with polyethylene liner or large cartons containing individual bags of 25 kg each.

Storage

TF 9205 PTFE can be stored for a relatively long period of time. 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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3M Center
St. Paul, MN 55144-1000
1-800-810-8499
www.3M.com/fluoropolymers

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