Technical Information

A 3M Company

Dyneon ä

TF 9205 PTFE

Micropowder

- Low molecular weight PTFEproduced 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

Micropowder Properties*

Average particle size	8 µm	ISO 13321
Bulk density	400 g/l	ASTM D4895
Specific surface area BET	12m^2 /g	DIN 66132
Melt flow rate MFR**	12 g/ 10 min	ISO 1133
Melt viscosity	approx. 10^2 Pa • S	calculated see footnote **

*Typical values

** The measurements are carried out at 372°C (701°F) (test weight 2.16-kg, die diameter 1.0mm). 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

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

Supply form

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

Storage

Dyneon TF 9205 PTFE can be stored for a relatively long period of time. It should be kept in a clean and dry place at temperatures below 30°C (86°F).

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Management systems

Dyneon has achieved ISO 9001 registration for its worldwide locations and ISO 14001 registration for its Gendorf facility located in Germany. Dyneon has achieved A2LA accreditation for its US operations located in Aston, PA.

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