

## Shamrock Technologies Fluoro T<sup>Â</sup>® 807 Thermoplastic Grade PTFE Additive

Category : Other Engineering Material , Additive/Filler for Polymer , Polymer , Thermoplastic , Fluoropolymer , PTFE

### Material Notes:

The addition of micronized polytetrafluoroethylene (PTFE) powder to polymeric resins provides greatly increased resistance to surface wear and abrasion. PTFE has a very low coefficient of friction (0.04) and is therefore useful as an internal lubricant processing aid. Because the PTFE particles are inert, processing and the other physical properties of the thermoplastic resin are not adversely affected. The optimum loading is typically 5 to 20 wt% PTFE. As a result of the improved surface wear and slip, thermoplastic products containing FLUORO-T<sup>Â</sup>® PTFE, look good longer while in use. The molecular weight and particle size distribution of the Shamrock series of FLUORO-T PTFE powders for thermoplastics are tailored to yield optimum improvements to wear resistance and surface friction, and flow easily during blending. Low Friction Lubricant Wear Resistance Information provided by Shamrock Technologies

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[http://www.lookpolymers.com/polymer\\_Shamrock-Technologies-Fluoro-T-807-Thermoplastic-Grade-PTFE-Additive.php](http://www.lookpolymers.com/polymer_Shamrock-Technologies-Fluoro-T-807-Thermoplastic-Grade-PTFE-Additive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.15 g/cc	2.15 g/cc	Internal method
Bulk Density	0.350 - 0.550 g/cc	0.0126 - 0.0199 lb/in <sup>Â³</sup>	ASTM D-4894
Additive Loading	5.0 - 25 %	5.0 - 25 %	When used as an additive
Particle Size	12 Âµm	12 Âµm	Mean Value, Laser diffraction; QSOP-5&75
	30 Âµm	30 Âµm	95%, Laser diffraction; QSOP-5&75

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.040	0.040	

Thermal Properties	Metric	English	Comments
Melting Point	320 - 330 Â°C	608 - 626 Â°F	ASTM-D-4591

Descriptive Properties	Value	Comments
Appearance	Fine powder	

Color Descriptive Properties	White Value	Comments
FDA Regulatory Information	21CFR;175.105;175.300;176.170;176.180	

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