

Shamrock Technologies NanoFLON[®] P 51A Thermoplastic Grade PTFE Additive

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

Material Notes:

Shamrock Technologies presents revolutionary new nanosized polytetrafluoroethylene (PTFE). Using this proprietary method, Shamrock can offer fully controlled distributions of PTFE in the sub-micron range (200 - 700 nanometers), as well as tightly-controlled chemical and physical properties. This significantly impacts molecular weight, crystallinity and morphology of the nanosized PTFE, thereby achieving key PTFE properties, including slip, refractive index, wettability surfactant and dielectric constant. NanoFlon P powder is agglomerated to 10 - 15 microns to minimize dusting during handling and is designed to disperse with regular mixing. The agglomerates break down with a resulting average particle size ranging from 200 - 700 nanometers. This provides up to one hundred times the surface area of other PTFE particles at equal weight (3 μ m vs. .3 μ m) for enhanced surface energy properties. Application: High intensity dispersion recommended, such as Medium mill or twin screw extruder process Offset, gravure and flexographic inks Digital and electronic inks Coatings: Industrial, automotive top coats, etc. Optical coatings UV protection Fade resistance Thermoplastic fibers Plastic/Thermoplastic gears components Wire and cable Elastomeric seals and parts Cosmetics, personal care products, hair care products and sunscreens Lubricants, greases and oils Agricultural chemicals and pesticides Textile fibers Electronics/Electrical coatings and components Polymeric computer chips Speciality: Stable dispersion Information provided by Shamrock Technologies

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http://www.lookpolymers.com/polymer_Shamrock-Technologies-NanoFLON-P-51A-Thermoplastic-Grade-PTFE-Additive.php

Physical Properties	Metric	English	Comments
Particle Size	0.20 - 0.70 μ m	0.20 - 0.70 μ m	Dispersed
	200 - 500 μ m	200 - 500 μ m	Dry

Thermal Properties	Metric	English	Comments
Melting Point	325 $^{\circ}$ C	617 $^{\circ}$ F	

Descriptive Properties	Value	Comments
Appearance	Free flowing powder	
Color	White	

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