

Comparison of FluoroSyl 880 and 3750

FluoroSyl 880 and 3750 are hydrophobic and oleophobic perfluoropolyether derivatives. These coatings provides long-lasting, anti-fouling, anti-fingerprint and anti-smudge properties to properly cleaned surfaces. FluoroSyl bonds to glass, plastic and metal surfaces. This produces an easy-to-clean, low surface energy, low refractive index, transparent, oil, water and stain repellent coating that is less than 10 nanometers thick. A comparison of the major properties of these two fluoro-polymers is shown in the following table.

	FluoroSyl 3750	FluoroSyl 880
Structure	Fluoro-polymer	Fluoro-polymer
Solvent	Fluorosolvent PFC80	Isopropyl Alcohol
Solids (%)	0.2	0.2
Viscosity (cP) @25°C	0.6	0.6
Shelf life of concentrate (20-50%)	2 years	1 year
Shelf life after dilution	2 years	3 days
Recommended Application Method	Spray, Spritz, Dip, PVD	Spray, Spritz, Dip, PVD
Typical Thickness (nm)	<10	<10
Dry to touch (minutes)	<2	<2
Thermal Cure Time & Temperature	10 minutes @ 150°C 50% Relative Humidity	10 minutes @ 100°C 50% Relative Humidity
Contact Angle (°)	>110 water >60 mineral oil	>95 water >50 mineral oil
Abrasion Resistance (cycles) 1cm², #0000 Steel Wool, 1kg	~3500-4000	~1000
Relative Differences	More abrasion resistant More lubricious	More affordable
Safety	Low toxicity Non-flammable RoHS compliant	Low toxicity Flammable RoHS compliant

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