

Comparison of FluoroSyl 3750 and 3750Y

FluoroSyl 3750 and 3750Y are hydrophobic and oleophobic perfluoropolyether derivatives. FluoroSyl 3750Y is optimized for touchscreen applications with greater finger lubricity than 3750. These coatings provide long-lasting, anti-fouling, anti-fingerprint, and anti-smudge properties to properly cleaned surfaces. FluoroSyl bonds to properly prepared 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 table below.

	FluoroSyl 3750	FluoroSyl 3750Y
Structure	Fluoro-polymer	Fluoro-polymer
Solvent	Fluorosolvent	Fluorosolvent
Solids (%)	0.2	0.2
Viscosity (cP) @25°C	0.6	0.7
Shelf life after dilution	2 years	3 years
Recommended Application Method	Spray, Spritz, Dip	Spray, Spritz, Dip
Typical Thickness (nm)	<10	<10
Dry to touch (minutes)	<2	<2
Thermal Cure Time & Temperature	10 minutes @ 150°C 50% Relative Humidity OR Highest substrate safe temperature	10 minutes @ 150°C 50% Relative Humidity OR Highest substrate safe temperature
Contact Angle to water	>105° water	>110° water
Contact angle to mineral oil	>60° mineral oil	>60° mineral oil
Ease of finger oil clean up	4 of 5	4 of 5
Abrasion Resistance (cycles) 1cm², #0000 Steel Wool, 1kg	~3000	~4000
Safety	Low toxicity Non-flammable RoHS compliant	Low toxicity Non-Flammable RoHS compliant

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