



Fluoroguard[®]

polymer additive

Fluoroguard[®] is a colorless, odorless, nonflammable, and chemically inert polymer additive based on fluorinated synthetic oil (perfluoropolyether). It has excellent color and UV/thermal stability. Added to plastics and elastomers, it improves processing characteristics and properties of polymer compounds. Fluoroguard[®] internally lubricates to improve flow properties, processibility, throughput, uniform mixing/dispersion of ingredients, and offers other advantages over competitive process aids. Fluoroguard[®] improves product performance by increasing wear and flex fatigue resistance and making parts last longer. In addition, Fluoroguard[®] eliminates marring and scratching of polymer surfaces. It also offers other benefits such as improved physical properties, product gloss, surface lubricity, and reduced COF and squeak/noise.

Three grades of Fluoroguard[®]—PCA, SG, and PRO—are available for different application areas of polymer processing and compounds. Fluoroguard[®] PCA and SG are based on high molecular weight oils, while PRO is based on low molecular weight oils. Fluoroguard[®] PCA is primarily used for enhancing product performance, while processing benefits are additional advantages. Fluoroguard[®] SG is a purified form and meets USP Plastics Class VI requirements (NAMSA tested). Fluoroguard[®] PRO is primarily intended to use as process aids.

Typical Properties of Fluoroguard[™] Polymer Additives

Properties	Units	Typical Values		
		PRO	PCA	SG
Av. Molecular Weight	—	1375	4800	4950
Volatility	22 hr at 121°C (250°F)	—	<1.0%	<1.0%
Viscosity	cSt at 50°C (122°F)	5	101	107
Density	g/mL at 23°C (74°F)	1.9	1.9	1.9
Surface Tension	dyn/cm at 26°C (79°F)	18	18	18
Refractive Index	nD25	1.3	1.3	1.3
Pour Point	°C (°F)	<-70 (<-94)	<-36 (<-33)	<-36 (<-33)
Appearance	—	Clear Liquid	Clear Liquid	Clear Liquid

For more information or technical assistance,
call the Fluoroguard® hot line at:

(800) 424-7502

or visit us on the Worldwide Web at:

<http://www.dupont.com/fluoroguard>

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