Fluoroguard™

Polymer Additive

Technical Information

Description

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 coefficient of friction (COF) and squeak/noise.

Grades

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 Fluoroguard 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 for use as a process aid.

Typical Properties of Fluoroguard™ Polymer Additives

		Typical Values		
Properties	Units/Conditions	PRO	PCA	SG
Average Molecular Weight	_	1375	4800	4950
Viscosity	cSt at 50 °C (122 °F)	5	101	107
Volatility	22 hr at 121 °C (250 °F)	_	<1.0%	<1.0%
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



Fluoroguard[™] Polymer Additive

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