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AGC



Fluon[®] PTFE
 Environmentally Friendly
 Products





Fluon® Lubricant Polymers



Grade	Bulk Density (g/l)	Mean Particle Size - Laser Diffraction (µm)	Surface Area (m²/g)	FDA Compositional Approval	Applications
FL1650	440	40	1.8	yes	High thermal stability grade recommended for use in thermoplastics
FL1679	1200	750*	-	yes	Used after milling as an additive in printing inks, oils, grease & industrial finishes
FL1680	400	14	1.6	yes	Low porosity lubricant used mainly in printing inks and industrial finishes
FL1690	440	40	1.8	yes	General purpose lubricant, for use in thermoplastics and elastomers
L169E	400	16	3	yes	Premium grade with narrow particle size distribution and high thermal stability for use in thermoplastics
FL1700	530	18	7.8	yes	Friable grade (to sub-micron particle size) used in rubber, elastomers, printing inks, oils, greases and industrial finishes. Suitable for metal decoration (can coating), gravure and flexographic printing inks
FL1700HT	620	25	5.8	yes	Oils and greases in drinking water applications
FL1710	450	6	4.6	yes	Fine particle size with good dispersion in low/high shear mixers used particularly in inks and industrial finishes
FL1730H	480	4	5.5	no	Fine particle size version of FL1710

* Measured by sieve analysis



Fluon® Aqueous Dispersion Polymers



Grade	Polymer Type	Mean Particle Size (nm)	Critical Film Thickness (µm)	Surfactant Type	Surfactant Content (% Weight on PTFE)	Solids Content (% PTFE)	Viscosity at 23°C (cP)	Applications
AD 132E	Homopolymer	280	20	Nonionic	6.0	59	15	Coating of metal substrates
AD 309E	Trace Copolymer	250	20	Nonionic*	5.5	60	15	Coating (when superior wetting properties required) and impregnation
AD650E	Trace Copolymer	250	N/A	Nonionic*	3.5	29	5	De-dusting of absorbent clays

* Does not contain octylphenol ethoxylates

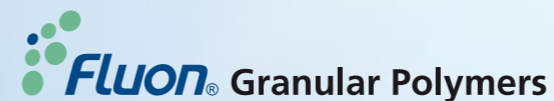


Fluon® Coagulated Dispersion Polymers



Grade	Polymer Type	SSG	Extrusion* Pressure (MPa)	Mean Particle Size (µm)	Reduction Ratio Range	Bulk Density (g/l)	Applications
CD084E	Trace Copolymer	2.15	26	550	300-700:1	480	Tubing + high performance hose
CD086EL	Trace Copolymer	2.15	28	475	100-500:1	470	Tubing + high performance hose
CD086EH	Trace Copolymer	2.15	35	475	100-500:1	470	Tubing + high performance hose
CD090E	Trace Copolymer	2.19	35	600	400-4000:1	500	Wire coating, small diameter transparent tubing
CD097E	Trace Copolymer	2.17	32	580	100-4000:1	510	Wire coating, heat shrink tubing
CD122E	Homopolymer	2.16	50	500	15-300:1	545	Electrical tapes and fibres
CD123E	Homopolymer	2.16	43	530	15-300:1	545	Pipeliner, electrical tape
CD127E	Homopolymer	2.16	35	530	25-400:1	545	Pipeliner, electrical tape
CD141E	Homopolymer	2.18	30	550	25-700:1	570	General purpose tubing, anti-drip additive, low density threadseal tape

*Extrusion pressure is measured in accordance with ISO 12086-2
Reduction ratio 1600:1 for Fluon® CD090E & CD097E
Reduction ratio 400:1 for all other Fluon® CD grades



Fluon® Granular Polymers



Grade	Polymer Type	Bulk Density (g/l)	Flow (s)	Mean Particle Size (µm)	Preform Pressure (MPa)	Shrinkage (%)	Ultimate Tensile Strength (MPa)	Tensile Elongation to Break (%)	Electrical Breakdown Voltage (kV/mm)	Applications
G110	Fine milled	225	-	15	-	-	-	-	-	Principally for blending with fillers
G155	Fine powder	400	-	45	16	5	37	400	80	Blending with fillers General moulding
G163	Fine powder	325	-	37	16	5	40	380	90	Blending with fillers Billets for skived tape
G201	Pre-sintered for extrusion	650	4.5	600	Extrusion only	12	22	330	50	Ram extrusion
G204	Pre-sintered powder	575	-	100	-	-	-	-	-	Principally as an additive, e.g. to coating systems. Porous mouldings

Mean particle size measured by Sympatec® Laser Diffraction particle size analyser (except G201 which is measured by sieve analysis)

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