

# Granular Polymers

Fluon® granular polytetrafluoroethylene (PTFE) polymers are fabricated by moulding and ram extrusion. Fine powders are suitable for applications requiring the very best mechanical or electrical properties. Agglomerated, free-flowing powders are suitable for general, automatic or isostatic moulding and extrusion of large sections.

G201 is a pre-sintered grade for extrusion of small sections.

Please contact the sales office for the latest information.



1. Aerospace industry  
2. Granular slide bearing and valve components  
3. Machined, auto and isostatically moulded parts  
4. Gaskets & diaphragms in chemical process plant

## Granular Polymer Grades

Grade	Polymer Type	Bulk Density (g/l)	Flow (mm)	Flow (s)	Mean Particle Size (µm)	Preform Pressure (MPa)	Shrinkage (%)	Ultimate Tensile Strength (MPa)	Tensile Elongation (%)	Electrical Breakdown Voltage (kV/mm)	Applications
G155	Fine powder	420	-	-	30	16	5	33	350	80	Blending with fillers. General moulding.
G163	Fine powder	335	-	-	25	16	5	35	375	90	Blending with fillers. Billets for skived tape.
G201	Pre-sintered extrusion	675	7	4.5	500	Extrusion only	12	22	330	50	Ram extrusion of small sections.
G204	Pre-sintered homopolymer	575	-	-	100	-	-	-	-	-	Principally as an additive, e.g. to coating systems. May be moulded for specialist applications.
G307	General purpose free flow	720	7	4.5	675	32	3	30	350	60	Automatic, isostatic and general moulding, ram extrusion.
G320	Low pressure free flow	700	9	4.5	525	16	5	30	350	75	Sheet, billet, isostatic and general moulding.
G401	Free flow extrusion	700	6	4.5	1200	Extrusion only	12	25	330	55	Ram extrusion of large sections.

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