

Saint-Gobain Performance Plastics

OmniSeal® Fluoroloy® Jacket Materials

Select the Fluoroloy® material Code No. to access data sheets for each material type.

Fluoroloy Code No.	Color	Application All Formulated Materials are Proprietary to Saint-Gobain Performance Plastics	Temp. Range		Coefficient of Friction-Normal	Wear K Factor 15000=Poor 1=Excellent
			°F	°C		
A01	White	Virgin PTFE Excellent for light to moderate dynamic and static service. Limited wear and heat resistance. Low gas permeability. Good cryogenic properties. Moderate to hard vacuum service. FDA approved.	+600° to -450°	+316° to -268°	.09	7500
A02	White	Modified PTFE Excellent for light to moderate dynamic and static service. Limited wear and heat resistance. Low gas permeability. Good cryogenic properties. Moderate to hard vacuum service. FDA approved. Improved creep and extrusion resistance.	+600° to -450°	+316° to -268	.09	6000
A05	Black	Polymer Filled PTFE Excellent wear material for higher temperatures, pressures and speeds. Excellent in water and water base solutions. Superior in dry or poor lubricated applications. Can be abrasive running against soft metals.	+600° to -450°	+316° to -268°	.09	1
A08	Tan	Polymer Filled PTFE Superior heat and wear resistance. Non-abrasive. Recommended for moderate to high speed dynamic service running against soft metals.	+600° to -450°	+316° to -268°	.15	2
A09	Gold	Formulated UHMW Extremely tough, long wearing but limited heat and chemical resistance. Particularly suitable for abrasive media. Recommended for long wear life under severe conditions.	+180° to -450°	+82° to -268°	.11	9
A11	Clear	Virgin PTFE Thermoplastic with superior resistance to nuclear radiation, but limited heat and wear resistance. Not recommended for general purpose sealing.	+300° to -150°	+149° to -101°	.50	150
A15	Gray	Lubricated Glass Filled PTFE Similar to A27 material but somewhat softer for improved sealing at low pressure. Can be abrasive running against soft metals.	+600° to -450°	+316° to -268°	.09	5
A16	Gray	Lubricated Organic Filled PTFE Excellent general purpose material for heat and wear resistance. Recommended for dry and poorly lubricated applications. Particularly suitable for water and steam service.	+600° to -450°	+316° to -268°	.09	12
A17	White	Formulated UHMW Extremely good wear and abrasion resistance, but limited heat and chemical resistance. Meets FDA requirements.	+180° to -450°	+82° to -268°	.11	9
A21	Black	Lubricated Organic Filled PTFE Similar to A16 material but increased hardness and wear resistance. Excellent in steam and water under severe conditions. Improved creep and extrusion resistance at higher temperatures. Good for back-up rings.	+600° to -450°	+316° to -268	.10	6
A22	Tan	Virgin Polyaryletherketone A high modulus material with excellent high temperature resistance. Recommended for back-up rings and for special applications.	+600° to -100°	+316° to -73°	.40	20
A27	Gray	Lubricated Glass Filled PTFE Tough, long wearing, heat resistant. Recommended for high pressure hydraulic service. Caution: Can be abrasive running against soft metals at high surface speeds.	+600° to -450°	+316° to -268°	.09	9
A30	Yellow	Glass Formulated PTFE Excellent heat, wear and chemical resistance. Good cryogenic properties. Caution: Can be abrasive running against soft metals at high surface speeds. Excellent material for back-up rings.	+600° to -450°	+316° to -268°	.09	6
A41	Black	Modified Filled PTFE Excellent all purpose high wear material. Best for dynamic applications running on moderate to hard surfaces.	+600° to -450°	+316° to -268°	.09	30
A42	Black	Lubricated Formulated PTFE Excellent general purpose material with good heat and wear resistance. Non-abrasive. Compatible with all hydraulic fluids and most chemicals. Good in water and non-lubricating fluids.	+600° to -450°	+316° to -268°	.09	30