

	Brand	Material name	Modification	Density	Colour	Temperature °C (reference value)		Chemical Resistance (Index)	Approvals	Special Performance	Material Code	Parts
	APSoplast® PA	PA 6		1.14	natural, black	-40	85		FDA	High mechanical strength Very high wear resistance Good sliding properties	PA 6 00.003-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 6 MO	MoS ₂	1.14	black	-40	85			PA 6 MO is a molybdenum disulfide (MoS ₂) modified PA-6-type Improved sliding properties and increased compressive strength	PA 6 MO.003-00	semi-finished parts (machined) finished parts
 	APSoplast® PA	PA 6 FR	flame-retardant	1.17	white, black	-20	85		BS 6853: Tab.7: Cat. II / Tab.8: Cat. Ib DIN 5510-2 (2009-05): S4 / SR2 / ST2: FED DIN EN 45545-2 (2013-08): R22, R23, R24, R26: HL3 UL 94: V0/0.4 mm	Free of halogen and phosphorus, flame-resistant and self-extinguishing	PA 6 FR.001-00 (naturel) PA 6 FR.001-01 (black)	semi-finished parts (machined) finished parts
 	APSoplast® PA	PA 66		1.14	natural, black	-30	95		FDA	Higher strenght, rigity, temeprature resistance compared to PA 6	PA 66 00.003-01 (naturel) PA 66 00.003-01 (black)	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 66 MO	MoS ₂	1.15	anthracite	-20	95			High hardness and mechanical strength, good sliding properties, good abrasion resistance	PA 66 MO.001-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 66 GF30	30% GF	1.29	black	-20	120			glass fibre reinforced Higher upper service temperature	PA 66 GF30.003-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 66 CF20	20% CF	1.23	black	-20	100			Carbon fibre reinforced Increased thermal and electrical conductivity and improved sliding properties	PA 66 CF20.002-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 46		1.18	reddish brown	-40	135			High continuous service temperature, excellent sliding properties, high heat deflection temperature	PA 46 00.001-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 12 G		1.02	natural, black	-40	120		FDA, EG 1935/2004, EU 10/2011	Very suitable for sliding, guiding and sealing elements, pump components, cyclones in chemically strained environment	PA 12 G 00.038-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 6 G		1.15	natural, black, blue	-30	100		FDA	High impact strength, excellent sliding properties, very high abrasion resistance	PA 6 G 00.001-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 6 G MO	MoS ₂	1.16	anthracite	-30	100			High rigidity, high toughness even at high temperatures, high UV resistance	PA 6 G MO.001-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 6 G HS	heat-stabilized	1.15	black	-40	120			Good resistance to thermal ageing, high rigidity, high UV resistance	PA 6 G HS.001-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 6 G LO	oil	1.14	chartreuse	-20	105			Excellent sliding properties, self-lubricating, improved "stick-slip" properties	PA 6 G LO.001-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 6 G SL	solid lubricant	1.14	gray	-30	105			Self-lubricating material, extraordinary dynamic load-bearing capacity, suited to high sliding speeds	PA 6 G SL.001-00	semi-finished parts (machined) finished parts
	APSoplast® PA	PA 6 G SL PLUS	solid lubricant	1.11	dark blue	-40	110			Low deformation under pressure load, enhanced wear resistance	PA 6 G SLPLUS.001-00	semi-finished parts (machined) finished parts
 	APSoplast® POM	POM-C		1.41	natural, black, blue	-50	110		FDA, EG 1935/2004, EU 10/2011	High chemical resistance, high dimensional stability, low moisture absorption	POM-C 00.001-00 (naturel) POM-C 00.001-01 (black)	semi-finished parts (machined) finished parts
	APSoplast® POM	POM-C EC	electrically conductive	1.45	black	-40	110			High UV resistance. Good resistance against many solvents	POM-C_EC_002-00	semi-finished parts (machined) finished parts
	APSoplast® POM	POM-C ED	electrostatic dissipative	1.33	beige	-50	110			Avoids problems resulting from discharge on parts touched by people	POM-C ED.004-00	semi-finished parts (machined) finished parts
	APSoplast® POM	POM-H		1.43	natural, black	-50	110		FDA, EG 1935/2004, EU 10/2011	Good "stick-slip" properties, high strength, electrically insulating, high chemical resistance, not adhesive	POM-H 00.002-00	semi-finished parts (machined) finished parts
	APSoplast® POM	POM-H SL	PTFE	1.50	grayish brown	-20	110			Improved sliding properties due to the PTFE filler	POM-H SL.002-00	semi-finished parts (machined) finished parts
 	APSoplast® PEEK	PEEK		1.30	natural	-60	250		FDA, EG 1935/2004, EU 10/2011	High heat deflection temperature, good machinability, inherently flame resistant, high-energy radiation resistant	PEEK 00.002-00 (roundbars) PEEK 00.001-00 (sheets)	semi-finished parts (machined) finished parts
	APSoplast® PEEK	PEEK SL	CF+graphite+PTFE	1.45	black	-30	250			High heat deflection temperature, high creep strength, good "stick-slip" properties	PEEK SL.002-00	semi-finished parts (machined) finished parts
	APSoplast® PEEK	PEEK GF30	30% GF	1.51	natural	-20	260			Filled with 25% glass fibre High stiffness and dimensional stability, very low creep behavior	PEEK GF30.001-00	semi-finished parts (machined) finished parts
	APSoplast® PEEK	PEEK CF30	30% CF	1.41	black	-20	260			Filled with 25% carbon powder High-energy radiation resistant	PEEK CF30.002-00	semi-finished parts (machined) finished parts
	APSoplast® PEEK	PEEK EC	nanotubes, electr. conduc	1.44	black	-20	260			Electrically conductive, high dimensional stability, high strength, high toughness	PEEK EC.002-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE		2.18	white	-200	260		FDA, EG 1935/2004, EU 10/2011	High maximum service temperature Exceptional resistance to chemicals and hydrolysis Lowest coefficient of friction	PTFE 00.011-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE TFM	chemically modified	3.18	white	-200	260		FDA, EG 1935/2004, EU 10/2011	Lower permeability to gases, lower deformation under load, better elastic recover and mechanical properties	PTFE TFM.011-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE N 100		4.18	white	-200	260		NSF/ANSI 61: Drinking Water System Components, ACS, KTW, WRAS (BS 6920-1), DVGW W270, FDA. EG 1935/2004, EU 10/2011	Food and drinking water approvals	PTFE N100.011-01	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE 125	25% GF	2.25	beige	-200	260		FDA, EG 1935/2004, EU 10/2011	filled with 25% glass fibre increased compressive strenght	PTFE 125.011-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE 225	25% carbon powder	2.11	black	-200	260		FDA, EG 1935/2004, EU 10/2011	filled with 25% carbon powder extremly good sliding properties	PTFE 225.011-01	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE 660	60% bronze powder	3.90	bronze	-200	260			The high filler content of 60% improves compressive strength and dimensional stability	PTFE 660.012-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE 904	30% GF+metallic	2.28	light blue	-200	260			High resistance to wear and specific loads, good flexibility characteristics	PTFE 904.013-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE HP 108	GF+metallic	2.25	dark red	-260	280			Low coefficient of friction and very high wear resistance, increased compressive strength	PTFE HP108.013-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE HP 110	carbon dust+graphite	2.10	black	-260	280			Most universal chemical resistance of all PTFE HP grades	PTFE HP110.013-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE HP 115	polymer	1.97	light yellow	-260	280		FDA	Extremely low coefficient of friction and high wear resistance	PTFE HP115.011-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE HP 117	CF	2.09	black	-260	280			For heavy-duty plain bearings, guide- and sealing elements, such as piston rings Anti static	PTFE HP117.013-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE HP 123	graphite	2.16	black	-260	280			Lowest coefficient of friction of all PTFE HP grades	PTFE HP123.013-00	semi-finished parts (machined) finished parts
	APSoplast® PTFE	PTFE EC		2.14	black	-100	250		FDA, EG 1935/2004, EU 10/2011	Electriclly conductive UV resistance, extremely non-adhesive	PTFE EC.011-00	semi-finished parts (machined) finished parts