

Product Description	Units	5209 FPL 20 Natural	AT- 000/10T-2S Natural	AT- 000/18T-2S Natural	AT- 000/20T Black	ATH- 000/4S Natural	CTX- 502 Natural	GF 1010 40 MS 2 HS Black 37
<b>Base Polymer</b>		Acetal	Acetal	Acetal	Acetal	Acetal	PEI	PA6
<b>Specific Gravity (ASTM D792)</b>		1.51	1.44	1.47	1.52	1.39	1.62	1.41
<b>Mold Shrink, Linear-Flow (ASTM D955)</b>	in/in	0.02 - 0.03	0.02 - 0.03	0.02 - 0.03	0.02 - 0.03	0.02 - 0.04	0.001 - 0.003	0.002 - 0.004
<b>Mold Shrinkage - Transverse (ASTM D955)</b>		0.01 - 0.03	0.01 - 0.03	0.01 - 0.03	0.01 - 0.03	0.01 - 0.03	0.001 - 0.003	0.01 - 0.02
<b>Water Absorption @ 24 hrs (ASTM D570)</b>	%							0.7
<b>Tensile Modulus (ASTM D638)</b>	psi	351000	389000	257000	240000	280000	1300000	1330000
<b>Tensile Strength at Yield (ASTM D638)</b>	psi	6100	6100	5800	6100	7300	22000	17700
<b>Tensile Strength at Break (ASTM D638)</b>	psi	5900	6100	5800	6000	7300	22000	17700
<b>Tensile Elongation at Break (ASTM D638)</b>	%	26	42	26	15	40	6	4.5
<b>Flexural Modulus (ASTM D790)</b>	psi	260000	273000	252000	270000	329000	1220000	1300000
<b>Flexural Strength (ASTM D790)</b>	psi	9900	9800	9100	9900	11000	31000	28000
<b>Static Coefficient of Friction (ASTM D1894)</b>		0.134	0.139	0.137	0.107	0.153	0.194	0.31
<b>Kinetic Coefficient of Friction (ASTM D1894)</b>		0.116	0.108	0.101	0.098	0.112	0.174	0.214
<b>Notched Izod Impact (ASTM D256)</b>	ft lb/in	0.7	0.9	0.7	0.7	1	1.5	3
<b>DTUL @ 66 psi - Unannealed</b>	deg F	307	302	304	304	316	412	405
<b>DTUL @ 264 psi - Unannealed</b>	deg F	181	180	178	181	188	401	365
<b>Flame Rating - UL (UL 94)</b>				HB @ 1.6 mm	HB @ 1.5 3.0 mm			
<b>SAP Code</b>		EM00904940	EM00905454	EM00904512	EM10009588	EM00906930	EM00905524	EM00904176

Product Description	Units	NI-0920063 Natural	NL- 30CF/15T Black	NL- 30GF/15T Black	NN-000/15T Black	NN- 30GF/13T-2S Black	PC-10CF/15T Black	PS- 30GF/2S Natural
<b>Base Polymer</b>		PA6/10	PA6/12	PA6/12	PA66	PA66	PC	PBT
<b>Specific Gravity (ASTM D792)</b>		1.34	1.33	1.43	1.23	1.47	1.34	1.54
<b>Mold Shrink, Linear-Flow (ASTM D955)</b>	in/in	0.001-0.003	0.002 - 0.008	0.002 - 0.004	0.010-0.015	0.002 - 0.004	0.001-0.003	0.002 - 0.004
<b>Mold Shrinkage - Transverse (ASTM D955)</b>		0.018-0.025	0.01 - 0.02	0.01 - 0.02	0.02-0.035	0.01 - 0.02		0.01 - 0.03
<b>Water Absorption @ 24 hrs (ASTM D570)</b>	%		0.15	0.15		0.6		
<b>Tensile Modulus (ASTM D638)</b>	psi	3185000	2800000	1225000	430000	1270000	1120000	1250000
<b>Tensile Strength at Yield (ASTM D638)</b>	psi	21500	24500	17300	9500	17000	13900	14500
<b>Tensile Strength at Break (ASTM D638)</b>	psi	21400	24500	17300	9600	16900	13900	14500
<b>Tensile Elongation at Break (ASTM D638)</b>	%	2.5	2.9	3.6	3	2.6	2	3
<b>Flexural Modulus (ASTM D790)</b>	psi	1600000	2.10E+06	1050000	430000	1100000	946000	970000
<b>Flexural Strength (ASTM D790)</b>	psi	35000	39000	27700	12000	31000	21300	24000
<b>Static Coefficient of Friction (ASTM D1894)</b>			0.259	0.184	0.25	0.275		0.236
<b>Kinetic Coefficient of Friction (ASTM D1894)</b>			0.139	0.133	0.43	0.15		0.144
<b>Notched Izod Impact (ASTM D256)</b>	ft lb/in	2.2	1.9	1.8	1.0	1.5	1.6	1.4
<b>DTUL @ 66 psi - Unannealed</b>	deg F	425	414	414	450	494	290	424
<b>DTUL @ 264 psi - Unannealed</b>	deg F		388	383	180	467	283	387
<b>Coefficient of Linear Thermal Expansion, Flow (ISO 11359-2)</b>	in/in/deg F			E-5				
<b>Surface Resistivity (ASTM D257)</b>	ohms/sq	E4-E5	E2-E3			E14	E4-E5	
<b>Volume Resistivity (ASTM D257)</b>	ohm cm	E3-E4	E2-E3	E13		E14	E4-E5	
<b>SAP Code</b>		EM10014124	EM00905611	EM00905619	EM00905637	EM00905703	EM10006760	EM00906030