

NAN YA ENGINEERING PLASTICS



PBT

NYLON 6

PP

PET

PC

NYLON 6/6

台塑關係企業
FORMOSA PLASTICS GROUP



南亞塑膠工業股份有限公司
NAN YA PLASTICS CORPORATION



NAN YA

ENGINEERING PLASTICS SERIES

[Click here ▼](#)

NAN YA PBT

General Purpose
Glass-Fiber Reinforced
Flame Retarded, Unreinforced
Flame Retarded, Glass-Fiber Reinforced

NAN YA NYLON 6

General Purpose
Glass-Fiber Reinforced
Mineral Reinforced
Flame Retarded, Unreinforced
Super Toughness

NAN YA PP

Thermal Resistance
Glass-Fiber Reinforced
Mineral Reinforced
Flame Retarded, Unreinforced

NAN YA PET

Glass-Fiber Reinforced
Flame Retarded, Glass-Fiber Reinforced

NAN YA PC

Glass-Fiber Reinforced
Flame Retarded, Unreinforced
Flame Retarded, Glass-Fiber Reinforced
Specialities

NAN YA NYLON 6/6

Glass-Fiber Reinforced
Mineral Reinforced
Flame Retarded, Unreinforced
Flame Retarded, Glass-Fiber Reinforced
Super Toughness

The Application in Automotive Industry

Nan Ya Grades for Various Parts Products in Automobiles

REMARKS:

1. UL file number:E130155
2. Also provide customer grades to meet your requirements.
3. The values shown on the attached pages have been obtained by astm standard test method, those should be shifted by the product.

GRADES	CHARACTERISTICS	APPLICATIONS
GENERAL PURPOSE		
1100	Low viscosity, I.V. value 0.85 Meet FDA requirement	Extrusion, spinning, injection molding for thick or small parts.
GLASS-FIBER REINFORCED		
1210G3	15% glass fiber reinforced, with high rigidity, high HDT and excellent electrical properties	Injection molding for automobile, electrical and electronic parts. For example, tube lighter base, lamp socket, head lamp housing, speaker housing, distributor cap and adaptor, door handle, fan housing, switch, reflector, back mirror stay, carburettor, electrical junction box, pump housing, etc.
1210G6	30% glass fiber reinforced, with high rigidity, high HDT and excellent electrical properties	
FLAME RETARDED, UNREINFORCED		
1300	UL 94 V-0, General grade	Connector, socket, switch, terminal block, etc.
FLAME RETARDED, GLASS-FIBER REINFORCED		
1403G3	UL 94 V-0, 15% glass- fiber reinforced with higher HDT	For electrical/electronic applications with flame retardancy, excellent mechanical and electrical properties, good dimensional stability and high heat resistance. For example, bobbin, switch, socket, relay block, capacitor housing, terminal block, connector, lamp socket, lamp housing, OA fan frame and impeller, glue gun housing, heater fan housing, breaker cover, etc.
1403G6	UL 94 V-0, 30% glass- fiber reinforced with higher HDT	
1410G3	UL 94, 3.2mm V-0, 15%, glass- fiber reinforced	
1410G6	UL 94, 3.2mm V-0, 30%, glass- fiber reinforced	
140PG3	UL 94 V-0, Nonhalogenated, 15% glass- fiber reinforced	
140PG6	UL 94 V-0, Nonhalogenated, 30% glass- fiber reinforced	

MECHANICAL			THERMAL	ELECTRICAL		OTHERS	
Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (18.6 kg/cm ²)	Dielectric Strength (3.2 mm)	Arc Resistance	Mold Shrinkage (3 mm)	Specific Gravity
ASTM D638 kg/cm ²	ASTM D790 kg/cm ²	ASTM D256 kg.cm/cm	ASTM D648 °C	ASTM D149 KV/mm	ASTM D495 sec.	ASTM D955 %	ASTM D792
550	24000	4	60	17	160	1.4-2.5	1.31
1000	50000	6.0	198	22	110	0.6-1.3	1.42
1300	80000	9.0	210	22	100	0.3-1.2	1.52
600	28000	4	65	18	60	1.8-2.0	1.40
1000	55000	5.5	195	20	75	0.4-1.4	1.50
1300	80000	8.0	206	20	80	0.2-1.2	1.59
1000	55000	5.5	195	20	75	0.4-1.4	1.50
1300	80000	8.0	206	20	80	0.2-1.2	1.59
800	47000	6.0	195	24	120	0.4-1.4	1.43
1000	75000	7.0	205	24	120	0.2-1.2	1.53

GRADES	CHARACTERISTICS	APPLICATIONS	MECHANICAL			THERMAL		OTHERS		
			Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (18.6 kg/cm ²)	Mold Shrinkage (3 mm)	Melting Index	Specific Gravity	Water Absorption (24hrs. 23°C)
GENERAL PURPOSE			ASTM D638 kg/cm ²	ASTM D790 kg/cm ²	ASTM D256 kg.cm/cm	ASTM D648 °C	ASTM D955 %	ASTM D1238 g/10min	ASTM D792	ASTM D570 %
2100	Low viscosity	For thin-wall, general purpose injection molding applications. For example, gear, socket for electrical goods, etc.	750	26000	6	70	1.0-1.8	45	1.13	1.8
2110	Standard type	For general purpose injection molding applications which require high mechanical strength. For example, gear, housing, socket for electrical goods, etc.	800	28000	6.5	70	1.0-1.8	10	1.13	1.8
GLASS-FIBER REINFORCED										
2210G3	15% glass-fiber reinforced with high stiffness, high HDT and high mechanical strength	For high mechanical strength required applications. For example, speed metering housing, head of hair dryer, etc.	1000	50000	7	200	0.7-1.1	20	1.23	1.4
2210G6	30% glass-fiber reinforced with high stiffness, high HDT and high mechanical strength	For high mechanical strength required applications. For example, brake lever of bicycle, breaker, yoke, hand tools housing, etc.	1600	80000	12	215	0.5-0.8	10	1.35	1.2
2210G9	45% glass-fiber reinforced with high stiffness, high HDT and high mechanical strength	For high mechanical strength required applications. For example, fishing reel, racket frame, etc.	1900	110000	15	215	0.3-0.7	8	1.51	0.9
2212G4	20% glass-fiber reinforced with high stiffness and high toughness	For both high stiffness and toughness required applications. For example, brake lever of bicycle, road roller frame, wheel frame, etc.	1100	45000	25	200	0.5-1.0	7	1.25	1.3
MINERAL REINFORCED										
2200M6	30% mineral reinforced	For low warpage, good surface required applications. For example, heater housing, fan housing, etc.	950	55000	5.5	185	0.4-0.9	20	1.35	1.1
FLAME RETARDED, GLASS-FIBER REINFORCED										
2310	UL 94 V-0, Nonhalogenated	Connector, relay block.	750	30000	5	70	0.8-1.5	40	1.15	1.3
SUPER TOUGHNESS										
2512	Outstanding impact strength, fast cycle	For high impact strength applications. For example, brake lever of bicycle, toe- clip, sporting goods, etc.	550	18000	90	55	1.2-1.9	10	1.06	1.5

GRADES	CHARACTERISTICS	APPLICATIONS	MECHANICAL			THERMAL	ELECTRICAL		OTHERS	
			Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (4.6 kg/cm ²)	Dielectric Strength (3.2 mm)	Mold Shrinkage (3 mm)	Melting Index	Specific Gravity
THERMAL RESISTANCE			ASTM D638 kg/cm ²	ASTM D790 kg/cm ²	ASTM D256 kg.cm/cm	ASTM D648 °C	ASTM D149 KV/mm	ASTM D955 %	ASTM D1238 g/10min	ASTM D792
3117	High mechanical strength, good surface heat resistance, FDA.	Electrical housing.	380	18000	3.0	120	40	1.0-2.0	10	0.91
GLASS-FIBER REINFORCED										
3210G4	20% glass fiber reinforced, with high mechanical strength, low shrinkage, and heat, creep resistance	Pump and contrroller housing, household electrical and electronic parts. For example, fan housing and blade, pump housing, valve frame, sockets, etc.	750	28000	7	158	40	0.3-0.9	4	1.04
3210G6	30% glass fiber reinforced, with high mechanical strength, low shrinkage, and heat, creep resistance	Yarn dye tube, pump and contrroller housing, household electrical and electronic parts. For example, fan housing and blade, pump housing, valve frame, sockets, etc.	800	35000	9	160	40	0.3-0.7	3	1.13
MINERALS REINFORCED										
3210T4	Talc reinforced, High mechanical strength, Same Biaxial shrinkage, good surface heat resistance, and stable dimensions	Automotive parts, for example, lamp housing, conditioner fan, air-duct, distributor cap, Instrument panel, parts housing, trims, etc. Household electrical and electronic parts. For example, lamp housing and base, machine housing, trims, etc. Electrical housing.	330	21000	3	128	40	0.5-1.3	9.5	1.05
3210T6			340	24000	2.8	130	40	0.3-1.1	8.6	1.12
3210T8	15% minerals reinforced		350	30000	2.5	135	40	0.2-1.0	8	1.22
3219M3			330	18000	3	115	40	0.9-1.9	10	1.04
3219M5			340	17000	4	115	40	0.7-1.7	8	1.12
FLAME RETARDED, UNREINFORCED										
3307	UL 94 V-O, Low specific gravity	X'mas lamp parts.	330	14000	3	105	40	1.0-1.5	30	0.97
3317	UL 94 V-O, General grade	Flame retarded demand for household and automotive parts. For example, insulator.	260	26000	3	125	40	0.7-1.3	10	1.33
FLAME RETARDED, GLASS-FIBER REINFORCED										
3410G6	UL 94 V-O, 30% glass- fiber reinforce	Electrical housing.	630	51000	6	160	40	0.3-0.7	5	1.38

GRADES	CHARACTERISTICS	APPLICATIONS
GLASS-FIBER REINFORCED		
4210G3	15% glass fiber reinforced, with high strength, good balance on rigidity and impact strength.	relay base, vacuum pump housing, car louver frame, ignition parts, gear, carburettor parts, lamp base, antenna case, etc.
4210G6	30% glass fiber reinforced, with high strength, good balance on rigidity and impact strength.	
FLAME RETARDED, GLASS-FIBER REINFORCED		
4410G3	UL 94 V-O, Non-blooming 15% glass-fiber/mineral reinforced, with high HDT.	For electrical/electronic and automobile applications. For example, connector, bobbin, pump housing, sandwich toaster, iron plate, lamp housing, diesel filter, glue gun housing, car distributor body, head lamp housing, ignition parts, carburettor body, etc.
4410G6	UL 94 V-O, Non-blooming 30% glass-fiber reinforced with high HDT	

MECHANICAL			THERMAL	ELECTRICAL		OTHERS	
Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (18.6 kg/cm ²)	Dielectric Strength (3.2 mm)	Arc Resistance	Mold Shrinkage (3 mm)	Specific Gravity
ASTM D638 kg/cm ²	ASTM D790 kg/cm ²	ASTM D256 kg.cm/cm	ASTM D648 °C	ASTM D149 KV/mm	ASTM D495 sec.	ASTM D955 %	ASTM D792
1000	55000	5.0	195	23	125	0.4-1.0	1.45
1350	78000	8.0	215	23	125	0.2-0.9	1.50
1000	55000	5.5	195	23	90	0.4-1.0	1.53
1450	90000	8.5	215	23	115	0.2-0.9	1.58

GRADES	CHARACTERISTICS	APPLICATIONS
GLASS-FIBER REINFORCED		
5210G2	10% glass fiber reinforced	Housing, case and base for electronics. For example, power tools,power supply, etc. Camera shaft, valve frame, sockets, etc.
5210G4	20% glass fiber reinforced	
5210G6	30% glass fiber reinforced	
FLAME RETARDED, UNREINFORCED		
5310	UL 94 V-O	Flame retarded demand for household and electronics parts. For example, lamp base.
531P	UL 94 V-O, Nonhalogenated	
FLAME RETARDED, GLASS-FIBER REINFORCED		
540PG2	10% glass fiber reinforced, UL 94 V-O, Nonhalogenated	Housing, case, and parts for electronics. Also need UL 94 V-O. For example, power tools, power supply, printer, optics and OA machine, etc.
540PG4	20% glass fiber reinforced, UL 94 V-O, Nonhalogenated	
5410G2	10% glass fiber reinforced, UL 94 V-O	
5410G4	20% glass fiber reinforced, UL 94 V-O	
5410G6	30% glass fiber reinforced, UL 94 V-O,	
PC ALLOY		
5502	PC/PBT alloy, Outstanding impact strength, low temperature impact.	Super toughness applications. For example, automotive bumper, skate, housings, and safety helmet, etc.
5512	PC/PET alloy, Outstanding impact strength, low temperature impact.	
5612	PC/ABS alloy, Outstanding impact strength	Electrical housing.
5712	PC/ABS alloy, Outstanding impact	Electrical housing.
571P	PC/ABS alloy, Outstanding impact strength UL 94 V-O, Nonhalogenated	Electrical housing.

MECHANICAL			THERMAL	ELECTRICAL		OTHERS	
Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (18.6 kg/cm ²)	Dielectric Strength (3.2 mm)	Mold Shrinkage (3 mm)	Specific Gravity	Water Absorption (24hrs. 23°C)
ASTM D638 kg/cm ²	ASTM D790 kg/cm ²	ASTM D256 kg.cm/cm	ASTM D648 °C	ASTM D149 KV/mm	ASTM D955 %	ASTM D792	ASTM D570 %
900	37000	10	142	18	0.2-0.5	1.28	0.16
1100	55000	13	143	18	0.2-0.5	1.34	0.13
1300	75000	13	145	18	0.2-0.5	1.40	0.11
630	23000	20	125	18	0.5-0.7	1.22	0.23
600	25000	60	110	17	0.5-0.7	1.29	0.20
800	35000	10	132	20	0.2-0.5	1.28	0.16
1050	54000	12	135	20	0.2-0.5	1.34	0.14
900	37000	10	142	20	0.2-0.5	1.28	0.16
1100	55000	13	142	20	0.2-0.5	1.34	0.14
1300	75000	13	145	20	0.2-0.5	1.43	0.12
560	22000	70	90	–	0.2-0.7	1.17	–
600	24000	80	110	–	0.2-0.6	1.22	–
550	24000	65	100	–	0.3-0.6	1.12	–
550	25000	50	100	25	0.2-0.7	1.20	–
600	28000	65	90	17	0.3-0.6	1.20	–

GRADES	CHARACTERISTICS	APPLICATIONS
GLASS-FIBER REINFORCED		
6210G3	15% glass-fiber reinforced	For high mechanical strength repuired applications. For example, breaker, bobbin, case of electrical equipment, etc.
6210GC	33% glass-fiber reinforced	
6212G3	15% glass-fiber reinforced with high stiffness and high toughness	For both high stiffness and toughness required applications. For example, road roller frame, wheel frame, etc.
6212GC	33% glass-fiber reinforced with high stiffness and high toughness	
MINERAL REINFORCED		
6210M5	25% mineral reinforced	For low warpage, good surface required applications. For example, housing of heater or fog light, wheel cover, etc.
FLAME RETARDED, UNREINFORCED		
6310	UL 94 V-O, Nonhalogenated	For electrical/electronic applications. For example, terminal block, connector, etc.
FLAME RETARDED, GLASS-FIBER REINFORCED		
6410G3	15% glass-fiber reinforced, UL 94 V-O	For electrical/electronic applications. For example, terminal block, connector, breaker, relay, etc.
6410G5	25% glass-fiber reinforced, UL 94 V-O	
640PG3	15% glass-fiber reinforced, UL 94 V-O, Nonhalogenated	
640PG5	25% glass-fiber reinforced, UL 94 V-O, Nonhalogenated	
SUPER TOUGHNESS		
6512	High impact resistance	For high toughness applications. For example, parts of tennis or racket, sporting goods, etc.

MECHANICAL			THERMAL		OTHERS		
Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (18.6 kg/cm ²)	Mold Shrinkage (3 mm)	Melting Index	Specific Gravity	Water Absorption (24hrs. 23°C)
ASTM D638 kg/cm ²	ASTM D790 kg/cm ²	ASTM D256 kg.cm/cm	ASTM D648 °C	ASTM D955 %	ASTM D1238 g/10 min	ASTM D792 --	ASTM D570 %
1200	48000	7	238	0.3-0.8	30	1.22	1.0
2000	85000	13	252	0.2-0.4	11	1.35	0.7
1100	42000	17	235	03-1.0	18	1.21	1.0
1300	65000	24	218	0.3-0.7	8	1.30	0.6
700	32000	5.7	70	0.5-1.0	39	1.31	1.25
750	33000	5	75	0.9-1.5	60	1.17	1.1
1250	65000	7	240	0.4-1.0	25	1.56	0.8
1600	85000	9	248	0.4-0.8	20	1.58	0.7
1100	65000	6	240	0.5-1.0	25	1.28	0.8
1300	80000	7.5	246	0.4-0.9	20	1.38	0.7
550	18500	110	65	1.2-1.9	10	1.09	1.25



NAN YA PLASTICS CORP PLASTICS 4TH DIV.
201 TUNG HWA NORTH RD, TAIPEI, TAIWAN

E130155

Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V T R	D 4 9 5	C T I
					With Imp	Mech w/o Imp					
Polybutylene terephthalate (PBTP) furnished in the form of pellets.											
1100F, 1101FA, 1101FB, 1110F, 1111FA, 1111FB	All	0.83	94HB	130	75	140	4	1	—	—	—
		1.5	94HB	130	120	140	4	0	—	—	—
		3.0	94HB	130	120	140	3	0	0	5	0
		6.0	94HB	130	120	140	1	0	—	—	—
1300	All	0.81	94V-0	105	105	105	4	0	—	—	—
		1.5	94V-0	115	105	115	3	0	—	—	—
		3.0	94V-0	115	105	115	2	0	3	6	3
		6.0	94V-0	115	105	115	1	0	—	—	—
1210G3	BK,WT	0.84	94HB	130	75	140	4	3	—	—	—
	All	1.5	94HB	130	120	140	4	0	—	—	—
		3.0	94HB	130	120	140	3	0	1	5	—
		6.0	94HB	130	120	140	1	0	—	—	—
1210G6	BK,WT	0.81	94HB	140	120	140	2	3	—	—	—
	All	1.5	94HB	140	120	140	1	0	—	—	—
		3.0	94HB	140	120	140	1	0	1	5	1
		6.0	94HB	140	120	140	0	0	—	—	—
1401G3	All	1.5	94V-0	75	75	75	—	—	—	—	—
1401G6	All	1.5	94V-0	75	75	75	—	—	—	—	—
1401G(b)	All	1.5	94V-0	75	75	75	—	—	2	6	3
Polybutylene terephthalate (PBTP) furnished in the form of pellets.(Cont'd.)											
1403G(a)	All	0.75	94V-0	130	130	140	4	0	—	—	—
		1.5	94V-0	130	130	140	3	0	—	—	—
		3.0	94V-0	130	130	140	2	0	2	6	3
1403G1	All	0.75	94V-0	140	130	140	4	0	—	—	—
		1.5	94V-0	140	130	140	3	0	—	—	—
		3.0	94V-0	140	130	140	2	0	2	6	3
1403G2	All	0.75	94V-0	130	130	140	4	0	—	—	—
		1.5	94V-0	130	130	140	3	0	—	—	—
		3.0	94V-0	130	130	140	2	0	2	6	3
1403G3	All	0.75	94V-0	130	130	140	4	0	—	—	—
		1.5	94V-0	130	130	140	3	0	—	—	—
		3.0	94V-0	130	130	140	2	0	2	6	3
1403G4	All	0.75	94V-0	130	130	140	4	0	—	—	—
		1.5	94V-0	130	130	140	3	0	—	—	—
		3.0	94V-0	130	130	140	2	0	2	6	3
1403G6	All	0.75	94V-0	130	130	140	3	0	—	—	—
		1.5	94V-0	130	130	140	2	0	—	—	—
		3.0	94V-0	130	130	140	2	0	1	6	2
1403G9	All	0.79	94V-0	75	75	75	—	—	—	—	—
1408G6	All	0.4-0.44	94V-0	140	75	130	0	0	2	7	2
140PG3	All	0.75	94V-0	130	75	130	0	0	—	—	—
		3.0	94V-0	130	75	140	0	0	4	5	1
140PG6	All	0.75	94V-0	130	75	130	0	0	—	—	—
		3.0	94V-0	130	75	140	0	0	4	5	0

NAN YA PLASTICS CORP PLASTICS 4TH DIV.
201 TUNG HWA NORTH RD, TAIPEI, TAIWAN

E130155

Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V T R	D 4 9 5	C T I
					With Imp	Mech w/o Imp					
Polybutylene terephthalate (PBTP) furnished in the form of pellets.(Cont'd.)											
140PG(m)	All	0.75	94V-0	130	75	130	0	0	—	—	—
		3.0	94V-0	130	75	140	0	0	4	5	1
1410G3	All	3.0	94V-0	75	75	75	—	—	—	—	—
1410G6	All	3.0	94V-0	75	75	75	—	—	—	—	—
141PG(b)	All	3.0-3.3	94V-0	75	75	75	—	—	—	—	—
1602	All	1.5	94HB	60	60	60	—	—	—	—	—
Polypropylene (PP), furnished in the form of pellets or sheets.											
3117(f1)	All	1.5	94HB	125	125	125	3	0	—	—	—
		3.0	94HB	125	125	125	2	0	0	4	0
3307(f1)	All	0.75	94V-0	110	110	110	4	0	—	—	—
		1.5	94V-0	110	110	110	3	0	—	—	—
		3.0	94V-0	110	110	110	2	0	0	5	0
3317(f1)	All	0.75	94V-0	115	115	115	4	2	—	—	—
		1.5	94V-0	115	115	115	3	1	—	—	—
		3.0	94V-0	115	115	115	2	0	0	6	0
3210G4	All	0.75	94HB	65	65	65	3	3	—	—	—
		1.5	94HB	65	65	65	3	0	—	—	—
		3.0	94HB	65	65	65	2	0	0	5	0
3210G5	All	0.75	94HB	65	65	65	3	3	—	—	—
		1.5	94HB	65	65	65	3	0	—	—	—
		3.0	94HB	65	65	65	2	0	0	5	0
3210G6	All	0.75	94HB	65	65	65	2	3	—	—	—
		1.5	94HB	65	65	65	1	0	—	—	—
		3.0	94HB	65	65	65	0	0	0	5	0
3210G(e)	All	0.75	94HB	65	65	65	4	3	—	—	—
		1.5	94HB	65	65	65	3	1	—	—	—
		3.0	94HB	65	65	65	2	0	0	6	0
3210T (i)	All	1.5	94HB	65	65	65	—	—	—	—	—
		3.0	94HB	65	65	65	—	—	—	—	—
3219M (j)	All	1.5	94HB	110	65	110	—	—	—	—	—
		3.0	94HB	110	65	110	—	—	—	—	—
3310	All	0.75	94V-2	110	65	65	4	0	—	—	—
		1.5-1.7	94V-2	110	110	110	4	0	0	4	0
3410G (j)	All	3.2-3.5	94V-0	65	65	65	—	—	—	—	—
3410T8	All	0.75	94V-2	65	65	65	—	—	—	—	—
Nylon Type 6 (PA6), furnished in the form of pellets.											
2110	All	0.75	94V-2	140	75	75	4	0	—	—	—
		1.5	94V-2	140	80	85	3	0	—	—	—
		3.0	94V-2	140	80	85	3	0	0	5	0
2200M6	All	0.75	94HB	65	65	65	—	—	—	—	—
		3.0	94HB	65	65	65	1	0	0	5	0
2200M9	All	1.5	94HB	65	65	65	—	—	—	—	—

NAN YA PLASTICS CORP PLASTICS 4TH DIV.
201 TUNG HWA NORTH RD, TAIPEI, TAIWAN

201 TUNG HWA NORTH RD, TAIPEI, TAIWAN										E130155	
Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V T R	D 4 9 5	C T I
					With Imp	Mech w/o Imp					
Nylon Type 6 (PA6), furnished in the form of pellets.											
2210G2	All	0.75	94HB	130	75	75	4	0	—	—	—
		1.5	94HB	130	80	85	3	0	—	—	—
		3.0	94HB	130	80	85	3	0	0	6	0
2210G3	All	0.75	94HB	130	100	115	3	0	—	—	—
		1.50	94HB	130	110	120	0	0	—	—	—
		3.00	94HB	130	110	120	0	0	0	6	0
2210G4	All	0.75	94HB	120	100	115	4	0	—	—	—
		1.50	94HB	120	100	115	3	0	—	—	—
		3.00	94HB	120	100	115	0	0	0	6	0
2210G5	All	0.75	94HB	120	100	115	4	0	—	—	—
		1.50	94HB	120	100	115	3	0	—	—	—
		3.00	94HB	120	100	115	0	0	0	6	0
2210G6	All	0.75	94HB	120	100	115	4	0	—	—	—
		1.50	94HB	120	100	115	2	0	—	—	—
		3.00	94HB	120	100	115	0	0	0	6	0
2210G7	All	0.75	94HB	120	100	115	4	0	—	—	—
		1.50	94HB	120	100	115	3	0	—	—	—
		3.00	94HB	120	100	115	3	0	0	6	0
2210G8	All	0.75	94HB	120	100	115	4	0	—	—	—
		1.50	94HB	120	100	115	3	0	—	—	—
		3.00	94HB	120	100	115	3	0	0	6	0
2210G9	All	0.75	94HB	120	100	115	3	0	—	—	—
		1.50	94HB	120	100	115	1	0	—	—	—
		3.00	94HB	120	100	115	0	0	0	6	0
2210G(c)	All	0.75	94HB	120	75	75	4	0	—	—	—
		1.50	94HB	120	80	85	3	0	—	—	—
		3.00	94HB	120	80	85	3	0	0	6	0
2310	All	0.75	94V-0	140	90	110	4	0	—	—	—
		1.50	94V-0	140	100	115	3	0	—	—	—
		3.00	94V-0	140	100	115	2	0	0	6	0

Nylon Type 66 (PA66), furnished in the form of pellets.

6110	All	0.75	94V-2	130	80	85	4	0	—	—	—
		1.50	94V-2	130	80	85	3	0	—	—	—
		3.00	94V-2	130	85	85	2	0	0	6	0
6210G2	All	0.75	94HB	120	80	85	4	0	—	—	—
		1.50	94HB	120	80	85	3	0	—	—	—
		3.00	94HB	120	85	85	2	0	0	6	0
6210G3	All	0.75	94HB	120	100	100	4	0	—	—	—
		1.50	94HB	120	100	100	2	0	—	—	—
		3.00	94HB	120	105	105	0	0	0	6	0
6210G4	All	0.75	94HB	115	100	100	4	0	—	—	—
		1.50	94HB	115	100	100	2	0	—	—	—
		3.00	94HB	115	105	105	0	0	0	6	0

NAN YA PLASTICS CORP PLASTICS 4TH DIV.
201 TUNG HWA NORTH RD, TAIPEI, TAIWAN

201 TUNG HWA NORTH RD, TAIPEI, TAIWAN											E130155
Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V T R	D 4 9 5	C T I
					With Imp	Mech w/o Imp					
Nylon Type 66 (PA66), furnished in the form of pellets.											
6210G5	All	0.75	94HB	115	100	100	4	0	—	—	—
		1.50	94HB	115	100	100	2	0	—	—	—
		3.00	94HB	115	105	105	0	0	0	6	0
6210G6	All	0.75	94HB	115	100	105	2	0	—	—	—
		1.50	94HB	115	100	105	1	0	—	—	—
		3.00	94HB	115	105	105	0	0	0	6	0
6210G7	All	0.75	94HB	105	100	105	3	0	—	—	—
		1.50	94HB	105	100	105	1	0	—	—	—
		3.00	94HB	105	105	105	0	0	0	6	0
6210G8	All	0.75	94HB	105	100	105	3	0	—	—	—
		1.50	94HB	105	100	105	1	0	—	—	—
		3.00	94HB	105	105	105	0	0	0	6	0
6210G9	All	0.75	94HB	105	105	105	3	0	—	—	—
		1.50	94HB	105	105	105	1	0	—	—	—
		3.00	94HB	105	105	105	0	0	0	6	0
6210G(c)	All	0.75	94HB	105	80	85	4	0	—	—	—
		1.50	94HB	105	80	85	2	0	—	—	—
		3.00	94HB	105	85	85	0	0	0	6	0
6310	All	0.75	94V-0	120	105	105	3	0	—	—	—
		1.50	94V-0	120	105	105	3	0	—	—	—
		3.00	94V-0	120	105	105	1	0	1	7	2
6401G (a)	All	3.00	94V-0	65	65	65	—	—	—	—	—
6401G6	All	1.50	94V-0	65	65	65	—	—	—	—	—
640PG1	All	0.75	94V-0	65	65	65	0	0	—	—	—
		3.00	94V-0	65	65	65	0	0	2	5	1
640PG8	All	0.75	94V-0	65	65	65	0	0	—	—	—
		3.00	94V-0	65	65	65	0	0	2	6	—
640PG(K)	All	0.75	94V-0	65	65	65	0	0	—	—	—
		3.0	94V-0	65	65	65	0	0	2	6	1
641PG1	All	3.0-3.3	94V-0	65	65	65	0	0	2	5	0
641PG8	All	3.0-3.3	94V-0	65	65	65	0	0	2	5	0
641PG(K)	All	3.0-3.3	94V-0	65	65	65	0	0	2	5	0
6410G3	All	0.75	94V-0	120	105	105	3	0	—	—	—
		1.50	94V-0	120	105	105	3	0	—	—	—
		3.00	94V-0	120	105	105	1	0	1	6	2
6410G4	All	0.75	94V-0	120	105	105	3	0	—	—	—
		1.50	94V-0	120	105	105	3	0	—	—	—
		3.00	94V-0	120	105	105	1	0	1	6	2
6410G5	All	0.75	94V-0	130	115	120	0	0	—	—	—
		1.50	94V-0	130	115	120	0	0	—	—	—
		3.00	94V-0	130	115	120	0	0	1	6	2
6410G(d)	All	0.75	94V-0	120	105	105	3	0	—	—	—
		1.50	94V-0	120	105	105	3	0	—	—	—
		3.00	94V-0	120	105	105	1	0	1	7	2
		0.75	94V-0	120	105	105	1	0	1	7	2

NAN YA PLASTICS CORP PLASTICS 4TH DIV.
201 TUNG HWA NORTH RD, TAIPEI, TAIWAN

E130155

Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V T R	D 4 9 5	C T I
					Mech						
					With	w/o					
					Imp	Imp					

Nylon Type 66 (PA66), furnished in the form of pellets.

6512	All	0.80	94HB	65	65	65	—	—	—	—	—
		3.20	94HB	65	65	65	—	—	—	—	—

Polycarbonate Terephthalate/polycarbonate (PBT/PC), furnished as pellets.

5502	All	1.6-1.8	94HB	75	75	75	—	—	—	—	—
------	-----	---------	------	----	----	----	---	---	---	---	---

Polycarbonate (PC), furnished in the form of pellets.

5110	All	1.50	94V-2	120	110	125	3	3	—	—	—
		3.00	94V-2	120	110	125	2	3	0	5	3

5210G2	All	1.50	94V-0	—	—	—	—	—	—	—	—
		3.00	94V-0	—	—	—	—	—	—	—	—

5210G3	All	1.50	94V-0	—	—	—	—	—	—	—	—
		3.00	94V-0	—	—	—	—	—	—	—	—

5210G4	All	1.50	94V-0	—	—	—	—	—	—	—	—
		3.00	94V-0	—	—	—	—	—	—	—	—

5210G5	All	1.50	94V-0	—	—	—	—	—	—	—	—
		3.00	94V-0	—	—	—	—	—	—	—	—

5210G6	All	1.50	94V-0	—	—	—	—	—	—	—	—
		3.00	94V-0	—	—	—	—	—	—	—	—

5310	All	1.50	94V-2	120	100	115	3	4	—	—	—
		3.00	94V-0	120	105	115	2	4	0	5	3

531P	All	1.5-1.65	94V-0	105	105	105	2	0	3	6	3
------	-----	----------	-------	-----	-----	-----	---	---	---	---	---

540PG(e)	All	1.5-1.65	94V-0	80	80	80	2	0	3	6	3
----------	-----	----------	-------	----	----	----	---	---	---	---	---

5400G1	All	1.50	94V-0	120	105	120	3	0	—	—	—
		3.30	94V-0	120	105	120	3	0	3	7	3

5400G6	All	1.50	94V-0	120	105	120	3	0	—	—	—
		3.30	94V-0	130	105	130	3	0	3	7	3

5400G(a)	All	1.50	94V-0	120	105	120	3	0	—	—	—
		3.30	94V-0	120	105	120	3	0	3	7	3

5410G(e)	All	1.50	94V-2	120	95	115	3	4	4	—	—
		3.00	94V-0	120	105	115	2	4	4	5	3

5410GE(h)	All	1.50	94V-0	80	80	80	—	—	—	—	—
-----------	-----	------	-------	----	----	----	---	---	---	---	---

Acrylonitrile-butadiene-styrene/polycarbonate (ABS/PC), furnished in the form of pellets.

5612	All	1.50	HB	60	60	60	—	—	—	—	—
		3.00	HB	60	60	60	3	0	2	7	2

5712f(1)	All	1.50	94V-0	100	85	90	2	1	—	—	—
		3.00	94V-0	100	85	90	1	0	1	6	2

571P	All	1.50	94V-0	60	60	60	—	—	—	—	—
		3.30	94V-0	60	60	60	—	—	—	—	—

571PG(e)	All	1.5-1.65	94V-0	60	60	60	—	—	—	—	—
----------	-----	----------	-------	----	----	----	---	---	---	---	---

NAN YA PLASTICS CORP PLASTICS 4TH DIV.
201 TUNG HWA NORTH RD, TAIPEI, TAIWAN

E130155

Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V T R	D 4 9 5	C T I
					Mech						
					With	w/o					
					Imp	Imp					

Polyethylene terephthalate (PET), furnished in the form of pellets.

4210G(g)	ALL	1.6-1.8	94HB	75	75	75	2	0	2	6	2
----------	-----	---------	------	----	----	----	---	---	---	---	---

4410G3	BK	0.75	94V-0	150	130	130	0	0	—	—	—
		1.50	94V-0	150	130	130	0	0	—	—	—
		3.00	94V-0	150	150	150	0	0	0	6	3

4410G4	BK	0.75	94V-0	150	130	130	0	3	—	—	—
		1.50	94V-0	150	130	130	0	3	—	—	—
		3.00	94V-0	150	150	150	0	2	0	6	3

4410G5	BK	0.75	94V-0	150	130	130	0	3	—	—	—
		1.50	94V-0	150	130	130	0	3	—	—	—
		3.00	94V-0	150	150	150	0	2	0	6	3

4410G6	All	0.75	94V-0	150	130	130	0	3	—	—	—
		1.50	94V-0	150	140	150	0	3	—	—	—
		3.00	94V-0	150	150	150	0	2	0	6	2

4410G7	BK	0.75	94V-0	150	130	130	0	3	—	—	—
		1.50	94V-0	150	140	150	0	3	—	—	—
		3.00	94V-0	150	150	150	0	3	1	6	4

4410G8	BK	0.75	94V-0	150	130	130	0	3	—	—	—
		1.50	94V-0	150	140	150	0	3	—	—	—
		3.00	94V-0	150	150	150	0	3	1	6	4

4410G9	BK	0.75	94V-0	150	140	150	0	3	—	—	—
		1.50	94V-0	150	140	150	0	3	—	—	—
		3.00	94V-0	150	150	150	0	3	1	5	4

4410G(g)	BK	0.75	94V-0	150	130	130	0	3	—	—	—
		1.50	94V-0	150	130	130	0	3	—	—	—
		3.00	94V-0	150	150	150	0	3	1	6	4

(a) May be followed by a number or letter indicating glasssfiber content between 5-30%.

(b)May be followed by a letter indicating glass-fiber content between 15~30%.

(c)May be followed by a letter indicating glass-fiber content between 1~45%.

(d)May be followed by a letter indicating glass-fiber content between 1~25%.

(e)May be followed by a letter indicating glass-fiber content between 1~30%.

(g) May be followed by a letter indicating glass-fiber content between 15-45%.

(h)May be followed by a letter indicating glass-fiber content between 1-50%.

(i)May be followed by a letter indicating talcum content between 10-40%.

(j)May be followed by a letter indicating glass-fiber content between 15-40%.

(k)May be followed by a letter indicating glass-fiber content between 5-40%.

(f1)Suitable for outdoor use: with respect to ultraviolet light, water exposure and immersion in accordance with UL 746C.

(m)May be followed by a letter or number indicating glass-fiber content between 15 and 30 percent, except 15 and 30%.



The Application of Nan Ya's Engineering Plastics in the Automotive industry

Engine & Power system

Fuse & Seat ABS Brakes

Ignition Cable Connectors

Radiator Fan Distributor Cap

Air Filter Radiator Holder

Intake Manifold Horn Elements

Window Lifter Motor Battery Holder

Exterior Parts

Wheel Cover Electric Pump

Door Handle Sun Roof Frame

Door Mirror Cover Antenna Base

Grille Holder Roof Goods Frame

Interior Parts

Curtain Rod Console

Door Armrest Garnish / Trim

Seat Unit Door Pedal

Shifter Assembly Combination Meter Cover

Parking Assist System Neck Protector

Illumination

LED Lamp Holder

Bulb Holder

RS Reflector
(LED Lamp Cover)



Nan Ya grades for various parts products in Automobiles

Illumination	Materials	Nan Ya Grade(s)	Engine & Power system	Materials	Nan Ya Grade(s)	Exterior Parts	Materials	Nan Ya Grade(s)	Interior Parts	Materials	Nan Ya Grade(s)	
LED Lamp Holder	PBT +20~30%Fiber	1210G4 MBK2	Fuse & Seat	PBT +30%Fiber(V0)	140PG6 ABK1	Wheel Cover	PA66 +25%Fiber	6210M5 AGY1	Door Armrest	PA6 +15%Fiber	2210G3 FBK2	
	PA6 +30~45%Fiber	1210G6 GBK2		PC (Non halogen V0)	531P ABK1	Door Handle	PA6 +45%Fiber	2210G9 FBK2		PA6 +40%Fiber	2200M8 FNC1	
	PP +20~40%Fiber	3210G6 ABK1		PA66 +15%Fiber	6210G3 GBK1		PC/PET	5502 UNC1	Seat Unit	PA66 +15%Fiber	6210G3 FBK3	
	PET +30~40%Fiber	4210G6 ABK3	Ignition Cable	PBT +30%Fiber	1210G6 GBK1	Door Mirror Cover & Holder	PBT +20~30%Fiber	1210G4 EBK1	Shifter Assembly	PBT +30%Fiber	1210G6 ANC1	
	PC/ABS	4210G8 MBK1		Radiator Fan	PP +30~40%Fiber			3210G8 MBK1		1210G6 ABK1	PA6 +30%Fiber	2210G6 ANC1
5612 FNC1	PA66 +40%Fiber	6210G8 MBK1	PET +30%Fiber		4210G6 ABK3		PA66 +33~45%Fiber	6210GC GNC1				
Bulb Holder	PA66 +15~33%Fiber	6210G3 FNC1	Air Filter	PA6 (Super Toughed)	2512 ABK1		Electric Pump elements	PA66 +50%Fiber	6210G9 HBK1	Parking Assist System	PET (V0) +15%Fiber	4410G3 ANC2
		6210GC FNC1		PA66 (GP)	6110 GBK1			PP(V0)	3310 SBK1	Console	PP +20%Talc	3200T4 FNC1
RS Reflector (LED Lamp Cover)	PBT +20~30%Fiber PA6 +30%Fiber	1210G4 MBK1	Window Lifter Motor Housing	PBT +30%Fiber	1210G6 GBK2	Sun Roof Frame	PBT +30%Fiber	1210G6 SBK2	Door Pedal	PP +20%Talc	3212T4 FBK1	
		1210G4 MGY3	Connectors	PBT (GP)	1111FB BNC1		PA6 +30%Fiber	2210G6 FNC1	Combination Meter Cover	PP +45%Talc	3210T9 EWT1	
		1210G6 GBK2		PBT +15~30%Fiber	1210G6 ANC1		PET +30%Fiber	4210G6 ABK2	Door trims	PP +10~20%Talc	3212T2 FBK1	
		2200M6 ANC6		PBT (Super Toughed)	1512 ENC2	Antenna Base	PA6 +20%Fiber	2212G4 ABK1				
		2210M6 ENC1		PA6 +30~45%GF	2210G9 FNC1	Roof Goods Frame	PA6 +30%Fiber	2210G6 ANC1				
	PA66+10%GF (Toughed)	6212G2 FNC1	Wipers	PBT +30%Fiber	1210G6 EBK2							
	Distributor Cap	PP +30~40%Fiber		3210G6 ANC3	PA66 +50%Fiber	6210G9 PBK1						
		Battery Holder	PC/ABS(V0) PA66 +15%Fiber(V0)	5712 FBK1 6410G3 ABK2								

The application of Nan Ya Engineering Plastics in the Automotive industry



Head LED Lamp Holder
5612FNCI



RS Reflector for Head Lamp
1210G4MBKI



RS Reflector for Head Lamp
1210G4MNCI



RS Reflector for Tail Lamp
1210G4MBKI



Radiator Holder
6214GCGBK2



Radiator Fan
6210G8MBKI



Air Filter Housing
6110GBK1



Fuse & Seat
6210G3GBK1



Connectors
1512ENC2



Window Lifter Motor Housing
1210G6GBK2



Combination Meter Cover
3210T9EWT1



Connectors
6212G2FNCI

The application of Nan Ya Engineering Plastics in the Automotive industry



Distributor Cap
3210T8ENCI



Signal Receiver Cover
5502UWTI



Door Handle
5502UNCI



Door Handle Head
5502UNCI



Antenna on Vehicles
2212G4ABKI



Electric Pump Element
3310SBKI



Door Mirror Cover &. Holder
1210G4EBKI, 6210G9HBKI



Wheel Cover
6210M5AGYI



A/T Shifter Assembly
6210GCFNCI



Parking Assist System Housing
4410G3ANC2



A/T Shifter Assembly Housing
3200T4FNCI



台塑關係企業

FORMOSA PLASTICS GROUP



本簡介採用南亞珠光紙印製
請勿混入一般紙類回收

This catalog is made by PEPA.

Do not recycle together with the natural paper.

(2013.03.800)



NAN YA PLASTICS CORPORATION

PLASTIC 3RD DIVISION ENGINEERING PLASTICS DEPT.

TAIPEI OFFICE: 201 TUN HWA N. ROAD, TAIPEI, TAIWAN.

REPUBLIC OF CHINA

CABLE: "NAN YA TAIPEI"

E mail: 24030@npc.com.tw

TEL: 886-02-27198661

FAX: 886-02-27122211 EXT. 5813~5814