

# NAN YA ENGINEERING PLASTICS



**NAN YA PLASTICS CORPORATION**  
PLASTIC 3RD DIVISION ENGINEERING PLASTICS DEPT.  
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NAN YA PLASTICS CORPORATION  
PLASTICS 3RD DIVISION  
ENGINEERING PLASTICS DEPT.



# NAN YA

## ENGINEERING PLASTICS SERIES

### 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

#### 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	MECHANICAL			THERMAL	ELECTRICAL		OTHERS	
			Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (18.6 kg/cm <sup>2</sup> )	Dielectric Strength (3.2 mm)	Arc Resistance	Mold Shrinkage (3 mm)	Specific Gravity
<b>GENERAL PURPOSE</b>			<b>ASTM D638</b>	<b>ASTM D790</b>	<b>ASTM D256</b>	<b>ASTM D648</b>	<b>ASTM D149</b>	<b>ASTM D495</b>	<b>ASTM D955</b>	<b>ASTM D792</b>
1100	Low viscosity, I.V. value 0.85 Meet FDA requirement	Extrusion, spinning, injection molding for thick or small parts.	550 kg/cm <sup>2</sup>	24000 kg/cm <sup>2</sup>	4 kg.cm/cm	60 °C	17 KV/mm	160 sec.	1.4-2.5 %	1.31
<b>GLASS-FIBER REINFORCED</b>										
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.	1000	50000	6.0	198	22	110	0.6-1.3	1.42
1210G6	30% glass fiber reinforced, with high rigidity, high HDT and excellent electrical properties		1300	80000	9.0	210	22	100	0.3-1.2	1.52
<b>FLAME RETARDED, UNREINFORCED</b>										
1300	UL 94 V-0, General grade	Connector, socket, switch, terminal block, etc.	600	28000	4	65	18	60	1.8-2.0	1.40
<b>FLAME RETARDED, GLASS-FIBER REINFORCED</b>										
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.	1000	55000	5.5	195	20	75	0.4-1.4	1.50
1403G6	UL 94 V-0, 30% glass- fiber reinforced with higher HDT		1300	80000	8.0	206	20	80	0.2-1.2	1.59
1410G3	UL 94, 3.2mm V-0, 15%, glass- fiber reinforced		1000	55000	5.5	195	20	75	0.4-1.4	1.50
1410G6	UL 94, 3.2mm V-0, 30%, glass- fiber reinforced		1300	80000	8.0	206	20	80	0.2-1.2	1.59
140PG3	UL 94 V-0, Nonhalogenated, 15% glass- fiber reinforced		800	47000	6.0	195	24	120	0.4-1.4	1.43
140PG6	UL 94 V-0, Nonhalogenated, 30% glass- fiber reinforced		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 <sup>2</sup> )	Mold Shrinkage (3 mm)	Melting Index	Specific Gravity	Water Absorption (24hrs. 23°C)
<b>GENERAL PURPOSE</b>			ASTM D638 kg/cm <sup>2</sup>	ASTM D790 kg/cm <sup>2</sup>	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
<b>GLASS-FIBER REINFORCED</b>										
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
<b>MINERAL REINFORCED</b>										
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
<b>FLAME RETARDED, GLASS-FIBER REINFORCED</b>										
2310	UL 94 V-0, Nonhalogenated	Connector, relay block.	750	30000	5	70	0.8-1.5	40	1.15	1.3
<b>SUPER TOUGHNESS</b>										
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

Pretreatment: 23°C, 50% RH, 24 hrs

GRADES	CHARACTERISTICS	APPLICATIONS	MECHANICAL			THERMAL	ELECTRICAL		OTHERS	
			Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (4.6 kg/cm <sup>2</sup> )	Dielectric Strength (3.2 mm)	Mold Shrinkage (3 mm)	Melting Index	Specific Gravity
<b>THERMAL RESISTANCE</b>			ASTM D638 kg/cm <sup>2</sup>	ASTM D790 kg/cm <sup>2</sup>	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
<b>GLASS-FIBER REINFORCED</b>										
3210G4	20% glass fiber reinforced, with high mechanical strength, low shrinkage, and heat, creep resistance	Pump and controller 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 controller 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
<b>MINERALS REINFORCED</b>										
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.	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			350	30000	2.5	135	40	0.2-1.0	8	1.22
3219M3	15% minerals reinforced	Electrical housing.	330	18000	3	115	40	0.9-1.9	10	1.04
3219M5	25% minerals reinforced FDA glossy, low warpage	Electrical housing.	340	17000	4	115	40	0.7-1.7	8	1.12
<b>FLAME RETARDED, UNREINFORCED</b>										
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
<b>FLAME RETARDED, GLASS-FIBER REINFORCED</b>										
3410G6	UL 94 V-O, 30% glass- fiber reinforce	Electrical housing.	630	51000	6	160	40	0.3-0.7	5	1.38

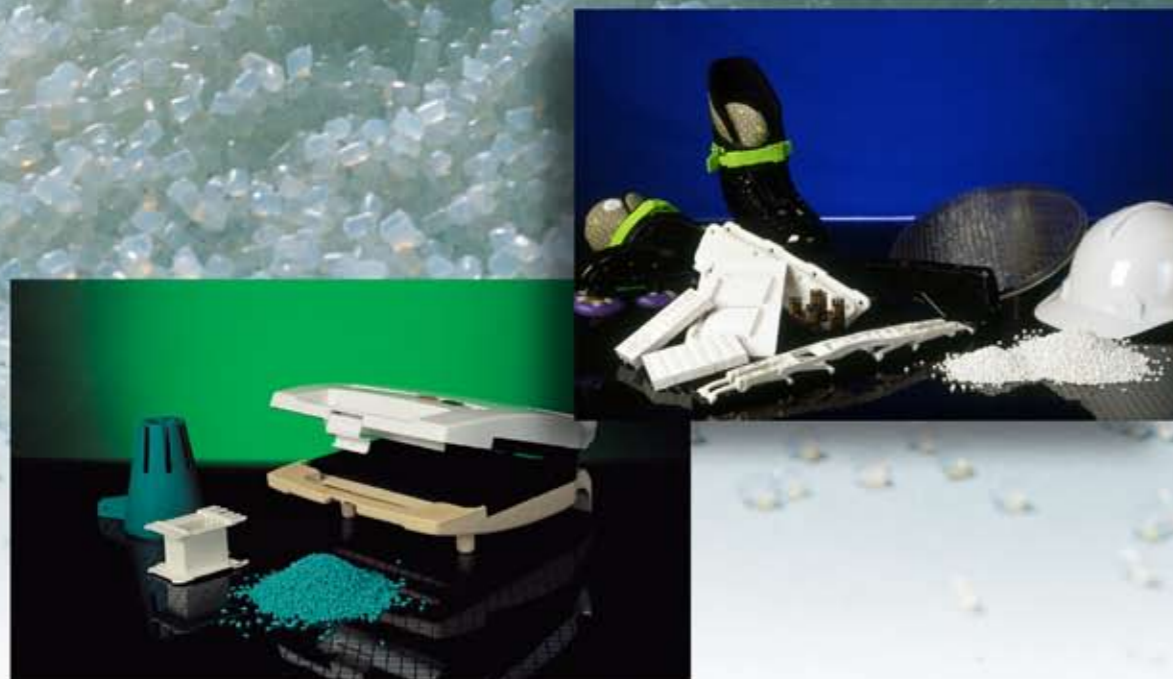
GRADES	CHARACTERISTICS	APPLICATIONS	MECHANICAL			THERMAL	ELECTRICAL		OTHERS	
			Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (18.6 kg/cm <sup>2</sup> )	Dielectric Strength (3.2 mm)	Arc Resistance	Mold Shrinkage (3 mm)	Specific Gravity
<b>GLASS-FIBER REINFORCED</b>			ASTM D638 kg/cm <sup>2</sup>	ASTM D790 kg/cm <sup>2</sup>	ASTM D256 kg.cm/cm	ASTM D648 °C	ASTM D149 KV/mm	ASTM D495 sec.	ASTM D955 %	ASTM D792
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.	1000	55000	5.0	195	23	125	0.4-1.0	1.45
4210G6	30% glass fiber reinforced, with high strength, good balance on rigidity and impact strength.		1350	78000	8.0	215	23	125	0.2-0.9	1.50
<b>FLAME RETARDED, GLASS-FIBER REINFORCED</b>			1000	55000	5.5	195	23	90	0.4-1.0	1.53
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.	1450	90000	8.5	215	23	115	0.2-0.9	1.58
4410G6	UL 94 V-O, Non-blooming 30% glass-fiber reinforced with high HDT									

GRADES	CHARACTERISTICS	APPLICATIONS	MECHANICAL			THERMAL	ELECTRICAL		OTHERS	
			Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (18.6 kg/cm <sup>2</sup> )	Dielectric Strength (3.2 mm)	Mold Shrinkage (3 mm)	Specific Gravity	Water Absorption (24hrs. 23°C)
<b>GLASS-FIBER REINFORCED</b>			ASTM D638 kg/cm <sup>2</sup>	ASTM D790 kg/cm <sup>2</sup>	ASTM D256 kg.cm/cm	ASTM D648 °C	ASTM D149 KV/mm	ASTM D955 %	ASTM D792	ASTM D570 %
5210G2	10% glass fiber reinforced	Housing, case and base for electronics. For example, power tools, power supply, etc. Camera shaft, valve frame, sockets, etc.	900	37000	10	142	18	0.2-0.5	1.28	0.16
5210G4	20% glass fiber reinforced		1100	55000	13	143	18	0.2-0.5	1.34	0.13
5210G6	30% glass fiber reinforced		1300	75000	13	145	18	0.2-0.5	1.40	0.11
<b>FLAME RETARDED, UNREINFORCED</b>										
5310	UL 94 V-O	Flame retarded demand for household and electronics parts. For example, lamp base.	630	23000	20	125	18	0.5-0.7	1.22	0.23
531P	UL 94 V-O, Nonhalogenated		600	25000	60	110	17	0.5-0.7	1.29	0.20
<b>FLAME RETARDED, GLASS-FIBER REINFORCED</b>										
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.	800	35000	10	132	20	0.2-0.5	1.28	0.16
540PG4	20% glass fiber reinforced, UL 94 V-O, Nonhalogenated		1050	54000	12	135	20	0.2-0.5	1.34	0.14
5410G2	10% glass fiber reinforced, UL 94 V-O		900	37000	10	142	20	0.2-0.5	1.28	0.16
5410G4	20% glass fiber reinforced, UL 94 V-O		1100	55000	13	142	20	0.2-0.5	1.34	0.14
5410G6	30% glass fiber reinforced, UL 94 V-O,		1300	75000	13	145	20	0.2-0.5	1.43	0.12
<b>PC ALLOY</b>										
5502	PC/PBT alloy, Outstanding impact strength, low temperature impact.	Super toughness applications. For example, automotive bumper, skate, housings, and safety helmet, etc.	560	22000	70	90	-	0.2-0.7	1.17	-
5512	PC/PET alloy, Outstanding impact strength, low temperature impact.		600	24000	80	110	-	0.2-0.6	1.22	-
5612	PC/ABS alloy, Outstanding impact strength	Electrical housing.	550	24000	65	100	-	0.3-0.6	1.12	-
5712	PC/ABS alloy, Outstanding impact	Electrical housing.	550	25000	50	100	25	0.2-0.7	1.20	-
571P	PC/ABS alloy, Outstanding impact strength UL 94 V-O, Nonhalogenated	Electrical housing.	600	28000	65	90	17	0.3-0.6	1.20	-

GRADES	CHARACTERISTICS	APPLICATIONS	MECHANICAL			THERMAL	OTHERS			
			Tensile Strength at yield	Flexural Modulus	Izod Impact (3.2 mm Notched)	HDT (18.6 kg/cm <sup>2</sup> )	Mold Shrinkage (3 mm)	Melting Index	Specific Gravity	Water Absorption (24hrs. 23°C)
<b>GLASS-FIBER REINFORCED</b>			ASTM D638 kg/cm <sup>2</sup>	ASTM D790 kg/cm <sup>2</sup>	ASTM D256 kg.cm/cm	ASTM D648 °C	ASTM D955 %	ASTM D1238 g/10 min	ASTM D792 --	ASTM D570 %
6210G3	15% glass-fiber reinforced	For high mechanical strength required applications. For example, breaker, bobbin, case of electrical equipment, etc.	1200	48000	7	238	0.3-0.8	30	1.22	1.0
6210GC	33% glass-fiber reinforced		2000	85000	13	252	0.2-0.4	11	1.35	0.7
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.	1100	42000	17	235	0.3-1.0	18	1.21	1.0
6212GC	33% glass-fiber reinforced with high stiffness and high toughness		1300	65000	24	218	0.3-0.7	8	1.30	0.6
<b>MINERAL REINFORCED</b>										
6210M5	25% mineral reinforced	For low warpage, good surface required applications. For example, housing of heater or fog light, wheel cover, etc.	700	32000	5.7	70	0.5-1.0	39	1.31	1.25
<b>FLAME RETARDED, UNREINFORCED</b>										
6310	UL 94 V-O, Nonhalogenated	For electrical/electronic applications. For example, terminal block, connector, etc.	750	33000	5	75	0.9-1.5	60	1.17	1.1
<b>FLAME RETARDED, GLASS-FIBER REINFORCED</b>										
6410G3	15% glass-fiber reinforced, UL 94 V-O	For electrical/electronic applications. For example, terminal block, connector, breaker, relay, etc.	1250	65000	7	240	0.4-1.0	25	1.56	0.8
6410G5	25% glass-fiber reinforced, UL 94 V-O		1600	85000	9	248	0.4-0.8	20	1.58	0.7
640PG3	15% glass-fiber reinforced, UL 94 V-O, Nonhalogenated		1100	65000	6	240	0.5-1.0	25	1.28	0.8
640PG5	25% glass-fiber reinforced, UL 94 V-O, Nonhalogenated		1300	80000	7.5	246	0.4-0.9	20	1.38	0.7
<b>SUPER TOUGHNESS</b>										
6512	High impact resistance	For high toughness applications. For example, parts of tennis or racket, sporting goods, etc.	550	18500	110	65	1.2-1.9	10	1.09	1.25

Pretreatment: 23°C, 50%RH, 24hrs





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 Mech		H W	H A	H V T	D 4 9 5	C T I
					With Imp	w/o Imp					
<b>Polybutylene terephthalate (PBTP) furnished in the form of pellets.</b>											
1100F, 1101FA,	All	0.83	94HB	130	75	140	4	1	—	—	—
1101FB, 1110F,		1.5	94HB	130	120	140	4	0	—	—	—
1111FA, 1111FB		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
<b>Polybutylene terephthalate (PBTP) furnished in the form of pellets.(Cont'd.)</b>											
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 Mech		H W	H A	H V T	D 4 9 5	C T I
					With Imp	w/o Imp					
<b>Polybutylene terephthalate (PBTP) furnished in the form of pellets.(Cont'd.)</b>											
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	—	—	—	—	—
<b>Polypropylene (PP), furnished in the form of pellets or sheets.</b>											
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	—	—	—	—	—
<b>Nylon Type 6 (PA6), furnished in the form of pellets.</b>											
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	—	—	—	—	—

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

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

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	w/o 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	—	—	—	—	—

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	w/o 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 glassfiber 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%.

