



PLASTICS

& POLYMER ALLOY

PRODUCTS BROCHURE



Junghwa Chemical Co.,Ltd.

PC Series

Taesung Product List

Note : GF-Glassfiber, FR-Flame Retardant, ST-Super Tough, HR-Heat Resistance, WR-Wear Resistance, CF-Carbon Fiber, MF-Mineral Fiber

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PC Series	General	310-05/10/15	None	HB	Low, middle and high flowability	Electronics and home appliance cover
	Super	310-ST	None	HB	Super toughness	
	Reinforced grade (GF,GF&FR, MF)	320-	10%-30%	HB	Glassfiber reinforced, high	Pump cover, electrical meter cover, monitor module and base etc.
		320-	10%-30%	HB	Glassfiber and mineral filler	
		320F-	10%-30%	V0	Glassfiber reinforced, Flame	
320F-	10%-30%	V0	Glassfiber and mineral filler			

PC Series

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PC Series	Flame retardant grade (FR)	330F-V2	None	V2	Super toughness grade, FR V2@3.2mm	Switch board, socket
		330F	None	V0	Super toughness grade, FR V0@1.6mm	Electronics
		330-5VA	None	5VA	Super toughness grade, FR 5VA@1.6mm,	
		330F-GN	None	V0	Super toughness grade, Halogen Free FR	
		330F-TR	None	V0	Transparent grade, FR V0@3.2mm	Electronics dash board
	PC/ABS ALLOY	BC350-HR	None	HB	Super toughness	Mobile phone, electronics, Auto dash board, Auto interior, and exterior parts, home appliance, safety helmet etc.
		BC350	None	HB	Various high properties balanced	
		BC350-HF	None	HB	Super toughness, high flowability	
		BC350-MP	None	HB	Plating grade, good flowability	
	FR PC/ABS ALLOY	BC350F-M10	None	V0	10% Mineral filler reinforced, excellent	OA equipment such as printer, duplicator, facsimile apparatus, various monitor frame, laptop component etc.
		BC350F-HR	None	V0	High heat resistance, high toughness, FR	
		BC350F	None	V0	Various high properties balanced, FR	
		BC350F-GN	None	V0	High flowability, Halogen free FR V0@1.6mm	electric power tool cover, Automobile instrument holder etc.
		BC350F-G10	10%	V0	10% Glass fiber reinforced, FR	
		BC350F-G20	20%	V0	20% Glass fiber reinforced, FR	
	PC/ASA ALLOY	3200	None	HB	Excellent toughness, flowability, Weatherability, and Anti-UV grade, FR V0@1.6mm	Outdoor using products
3200F		None	V0			

ABS Series

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
ABS Series	General Purpose grade (GP)	210-05/20/35	None	HB	Low, middle and high flowability	Home appliance, consumption products cover, toys etc.
		210-WR	None	Wear resistance	Wear resistance	
		210-UV	None	HB	Weatherability, Anti-UV	
		210-TR	None	HB	Transparent grade	
	Reinforced Grade (GF, GF&FR)	220-G10/20/30	10%-30%	HB	10%-30% Glassfiber reinforced, high	Monitor base, electrical power tools hand shank, electrical meter cover etc.
		230F-G10/20/30	10%-30%	V0	10%-30% Glassfiber reinforced, high	
	FR Grade	230F-HR	None	V0, 5VA	High Strength, High heat resistance, FR	OA equipment, home appliance, electrical power tools cover, switch board, socket, electronics componet etc.
		230F-HG	None	V0	High Strength, High gloss, FR V03.2mm	
	FR Grade	230F	None	V0, 5VA	General strength, high flowability, FR	
		230F-UV	None	V0	General strenght, high flowability, Anti-	
		230FC	None	V0	PVC/ABS alloy, V0@1.6mm	
	High heat	240-	None	HB	Heat resistance temperature 95°C/100°C/	

ABS Series

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
ABS Series	PMMA/ABS ALLoy Series	BM250-TV	None	HB	High Flowability, excellent mirror surface	LCD TV set monitor frame and base
		BM250-H2	None	HB	Super high surface hardness 2H, Anti-	Digital products
		BM250-H1	None	HB	High surface hardness, Anti-scratch, good	Complex key structure componet with
		BM250-TR	None	HB	Transparent grade	LCD TV set monitor transparent frame
		BM250F-TV	None	V0	FR V0 grade, High Flowability, Anti-	LCD TV set monitors and base, especially for European
	HIPS	PS260	None	HB	GP grade	Refrigerator, Air conditioner board
		PS260F	None	V0	FR V0 @1.6mm grade	TV set back cover, Printer cover
		PS260F-GN	None	V0	Halogen free FR V0@1.6mm	
	SAN	AS270	None	HB	GP grade	Container cover
		AS270-G20	20%	HB	20% glassfiber reinforced	Centrifugal fan
		AS270-G30	30%	HB	30% glassfiber reinforced	
	ASA	ASA280	None	HB	GP grade	Outdoor using products
		ASA280F	None	V0	FR V0 @1.6mm grade	

PBT, PET Series

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PBT, PET Series	Glassfiber reinforced PBT&PET, High Strength	420G20	20%	HB	PBT+20%GF Reinforced	Hair Straightor, Computer radiator fan, Iron base etc. (10%, 15%, 25%, 35% GF reinforced is also available)
		520G20	20%	HB	PBT+20%GF Reinforced	
		420G30	30%	HB	PBT+30%GF Reinforced	
		520G30	30%	HB	PBT+30%GF Reinforced	
		420G40	40%	HB	PBT+40%GF Reinforced	
		520G40	40%	HB	PET+40%GF Reinforced	
	GF&FR PBT&PET, High Strength	430G30FGN	30%	V0	PBT+30%GF, Halogen free FR	Various Switch components, Connectors, Coil Bobbin, Transformers bobbin, Adaptor cover etc. (15%,25% is also available)
		530G30FGN	30%	V0	PET+30%GF, Halogen free FR	
		430G20F	20%	V0	PBT+20%GF, FR V0@1.6mm	
		530G20F	20%	V0	PET+20%GF, FR V0@1.6mm	
		430G30F	30%	V0	PBT+30%GF, FR V0@1.6mm	
	Energy saving lamp holder and LED special using PBT&PET GF grade	430G25-DT	25%	V0	PBT+25%GF, FR V0, White lamp holder	White saving lamp holder and LED products special using
		530G25-DT	25%	V0	PBT+25%GF, FR V0, White lamp holder	
		420M40-LED	40%	HB	PBT+40%MF, White antiglare LED	
		520M40-LED	40%	HB	PBT+40%MF, White antiglare LED	

PA6 & PA66

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PBT, PET Series	PBT/ASA Alloy	4200A	None	HB	Excellent Anti Warping	Auto Air Conditioner outlet parts
	PC/PBT Alloy	4300	None	HB	Excellent Chemicals resistance, Anti Low	Auto Bumps, Electronics components
	High special grade PBT&PET	430G30F-CTI	30%	V0	PBT+30%GF, FR V0, High CTI	Micro Electrical Breaker, Relay, Anti High Voltage Cover
		530G30F-CTI	30%	V0	PET+30%GF, FR V0, High CTI	
		430G30F-HT	30%	V0	PBT+30%GF, FR V0, High Heat	Connectors, Hair Straightor, Heat Insulation board
		530G30F-HT	30%	V0	PET+30%GF, TR V0, High Heat	
PA Series (PA6 & PA66)	General Purpose grade (GP)	N6010	None	V2	General Purpose, Viscosity 2.7, For Injection or Extursion	Various Electrical, Mechanical Parts
		N6610	None	V2		
	Glassfiber Reinforced PA6&PA66	N60G15	15%	HB	PA6+15%,20%,25%,30%,50%GF, Glassfiber reinforced grade	Auto parts, Electrical parts, Power tools, Gears, Mechanical parts, Industrial parts, Mechanical instruments parts, Connectors etc
		N60G20	20%	HB		
		N60G25	25%	HB		
		N60G30	30%	HB		
		N60G50	50%	HB		
		N66G15	15%	HB	PA66+15%,20%,25%,30%,33% 50%GF, Glassfiber reinforced grade	
		N66G20	20%	HB		
		N66G25	25%	HB		
		N66G30/33	30% or 33%	HB		
		N66G50	50%	HB		
	N66G25/G33-	25%, 30% or	HB	PA66+33%GF, Resistant to Hydrolysis	Pumps, Auto Radiators	

PA6 & PA66

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PA Series (PA6 & PA66)	Super Toughness grade PA6&PA66I(ST)	N60-ST	None	HB	PA6, PA6+15%,20%,30%GF, Super Toughness grade, High impact, Dimension stability, Cold resistance	Sports Apparatus parts like Mountain bikes, Skating Shoes, Scooters, Skibobs etc
		N60G20-ST	20%	HB		
		N60G30-ST	30%	HB		
		N60-ST	None	HB	PA6, PA6+15%,20%,33%GF, Super Toughness grade, High impact, Dimension stability, Cold resistance	
		N60G20-ST	20%	HB		
		N60G30-ST	30%	HB		
	Flame Retardant Grade (FR)	N60F-V0, V2	None	V0, V2	Flame retardant PA6	Various Switch components, Connectors, Coil Bobbin, Transformers bobbins etc (15%,25% is also available)
		N66F-V0, V2	None	V0, V2	Flame retardant PA66	
		N66FGN-V0, V2	None	V0, V2	PA66 Non-halogen flame retardant,	
	GF & FR Grade	N60G20F	20%	V0	PA6+15%,20%,25%,30%GF, and FR V0 grade	
		N60G30F	30%	V0		
		N66G20F	20%	V0	PA66+15%,20%,25%,30%GF and FR V0 grade	
		N66G30F	30%	V0		

PPO Series

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PPO Series	Heat Resistant Grade	E70-T110	None	HB	HDT 110°C, Resistant to Hydrolysis, good	Electronics equipments, Electrical instruments, Adaptor cover, Printer, cover, Dash board framework, Automobile airchange grille, solar connecting box etc
		E70-T120	None	HB	HDT 120°C, Resistant to Hydrolysis, good	
		E70-T130	None	HB	HDT 130°C, Resistant to Hydrolysis, high	
		E70-LED	None	HB	HDT 120°C, Medium heat resistance,	
	Flame Retardant Grade (FR)	E70F-T80	None	V0	HDT 80°C, High Flowability, Halogen	
		E70F-T90	None	V0	HDT 90°C, High Flowability, Halogen	
		E70F-T100	None	V0	HDT 100°C, Medium heat resistance,	
		E70F-T120	None	V0	HDT 120°C, Halogen Free Flame Retardant	
		E70F-T145	None	V0	HDT 145°C, Very high heat resistance,	
	GF, GF&FR Grade	E70G10	10%	HB	PPO+10%,20%,30%GF, Good dimension stability, resistant to Hydrolysis, no FR	
		E70G20	20%	HB		
		E70G30	30%	HB		
		E70G10F-V1	10%	V1	PPO+10%,20%,30%GF, Good dimension stability, resistant to Hydrolysis, Halogen free FR V1	
		E70G20F-V1	20%	V1		
		E70G30F-V1	30%	V1		

PP Series

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PPO Series	PPO/PA66 ALLOY, PPO/PA66+GF grade	NE76	None	V0	Good flowability, Chemical resistance,	Auto parts (especially like Fender, Fuel tank door, and Luggage carrier etc)
		NE76G10	10%	HB	PPO+10%,15%,20%GF, good rigidity and chemical resistance	
		NE76G15	15%	HB		
		NE76G20	20%	HB		
PP Series	None Filler grade	110	None	HB	General Purpose	Home appliance, Auto parts
		110-LT	None	HB	Cold resistance, Anti-warping	
		110-UV	None	HB	Weatherability	
	Reinforced Grade (Mineral filler& Glassfiber)	120-M10/20/30	10/20/30%	HB	10%/20%/30% Mineral Filler reinforced,	Home appliance, Auto parts
		120-	10/20/30%	HB	10%/20%/30% Mineral Filler reinforced,	
		120-	10/20/30%	HB	10%/20%/30% Mineral Filler reinforced,	
	Flame Retardant Grade (FR, GF&FR)	130F	None	V0	FR V0@1.6m, Environment protection	Home appliance, Electronics products covers
		130F-V2	None	V2	FR V0@1.6m, Environment protection	
		130F-5VA	None	5VA	FR 5VA, GWT 850℃	
130F-G30		30%	V0	FR V0@1.6m, 30%GF		
130F-UV		None	V0	FR V0@1.6mm, Anti-UV		

PP Series

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PP Series	Auto parts special using grade	160BU	None	HB	High Impact, High Flowability,	Auto bumps special using grade
		160BU-	10/20/30%	HB	10%/20%/30% Filler	
		160DB	None	HB	High flowability, Anti-Scratch, Low smell	Auto Dash Board special using grade
		160DB-	10/20/30%	HB	10%/20%/30% Filler	
		160IT	None	HB	Balanced good rigidity and toughness	Auto Interior parts special using grade
		160IT-	10/20/30%	HB	10%/20%/30% Filler	
	Home appliance special using grade	120M30-HR	None	HB	High rigidity, High heat resistance	Various home appliance products like Rice boil maker, Wash machine, Air conditioner, Microwave ovan, Heater, Coffeemaker etc
		120M30-LT	None	HB	High impact, Cold resistance	
		120M30-UV	None	HB	Weatherability, Anti-UV	
		120M30-HG	None	HB	High gloss	
120M20-CC		None	HB	20% Caco3 filler		

PPA Series/PPS

SPECIAL HIGH PLASTICS

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PPA Series	Glassfiber	A90G30/G35/40/	30%,35%,40	HB	High Rigidity, High heat resistance, better	High rigidity industrial structure
	GF&FR	A90G30F/G35F/	30%,35%,40	V0	30%, 35%,40%,45%,50% Glassfiber	Connectors, Breaker, High temperature resistance componets
		A90G35F-GN	35%	V0	30%,35%,40%,45%,50% Glassfiber	
	Special grade	A90G35-WR	35%	HB	Wear resistance	Industrial high rigidity and wear
		A90C35/C40	35%,40%	HB	35%,40% Carbon Fiber reinforced	Printer parts
A90G33-SJ		33%	HB	33%GF reinforced, Hydrolysis resistance,	Auto Water Chamber special using	
PPS	Glassfiber	S90G30/G35/G40	30%,35%,40%,	V0	High Rigidity, FR V0	High rigidity industrial structure
	Special PPS Alloy grade	NS96G30/G40	30%,40%	HB	PPS/PA alloy,30%,40%,GF reinforced	Connectors, Breaker, High temperature resistance componets
		NS96G30F/G40F	30%,40%	V0	PPS/PA alloy,30%40% GF reinforced, FR	
		SL99G40F	40%	V0	PPS/LCP alloy, 30%40% GF reinforced, FR	
	Special grade	S90G40	40%	V0	High wear resistance, 40% GF reinforced	High precision, super high rigidity, super high wear resistance industrial and military products
S90C35/C40		35%,40%	V0	35%,40% Carbon Fiber reinforced		

POM/LCP Series

SPECIAL HIGH PLASTICS

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
POM	General Purpose grade (GP)	M80	None	HB	POM Resin	General using GEARS
		M80-09	None	HB	POM Resin, MFI 9	
		M80-27	None	HB	POM Resin, , MFI 27	
	GF reinforced	M80G10/G20/	10%,20%,25%,	HB	10%,20%,25%,30%GF Reinforced, High	High rigidity structure parts, industrial
	Special grade	M80-WR	None	HB	High wear resistance	High precision, high wear resistant structure parts
		M80G20-WR	20%	HB	20%GF reinforced, high wear resistance	
		M80-ST	None	HB	Super toughness	Auto Bumps support
M80GB15		15%	HB	15% Glass bead reinforced, Anti-warping	Industrial Gears	
LCP Series	GF&FR	L90G20/G30/	20%,30%,35%	V0	20%,30%,35%40%,50% GF reinforced	High precision Connectors
	Mineral filler reinforced grade	L90M25/M30/	25%,30%,	V0	25%,30%,40% Mineral filler reinforced	High wear resistance structure parts, Antistatic parts
		L90MG25/MG30	25%,30%	V0	25%,30% Mineral Graphite reinforced	
	Special grade	L90G40-HT	40%	V0	40%GF reinforced	Special precision high temperature
		L90C30	30%	V0	30% Carbon Fiber reinforced	Printer parts
		SL99G40	40%	V0	PPS/LCP Alloy, 40%GF reinforced	Much higher rigidity than PPS, can

PEI Series/PEEK Series

SPECIAL HIGH PLASTICS

Product Division		Grade No.	Filler (%)	FR (UL-94 Standard)	Characteristics	Main application
PEI Series	General grade (GP)	I90NC	None	V0	PEI resin Natural color	Auto parts, Medical instruments, Electronics parts etc
		I90BL	None	V0	PEI Resin Blue color	
		I90BK	None	V0	PEI Resin Black color	
	GF reinforced	I90G20/G30/G35	20%,30%,35%	V0	20%,30%,35%,40% GF Reinforced, High	High rigidity structure parts, Industrial
	Special Grade	I90C20/C30	20%,30%	V0	20% Carbon Fiber reinforced, High wear	High precision conductive electrical
I90C20/C30-WR		20%,30%	V0	21% Carbon Fiber reinforced, SuperHigh wear	High precision printer parts	
PEEK Series	General grade (GP)	K90NC	None	V0	PEEK Resin Natural color	Super high rigidity rods, bars, tubes, pipes etc for special using
		K90BK	None	V0	PEEK Resin Black color	
	GF reinforced	K90G20/G30/	20%,30%,40%	V0	20%,30%,40% GF Reinforced, High	High precision parts for Military,
	Special grade	K90C20/C30	20%,30%	V0	20%,30% Carbon Fiber reinforced, High	Military using products
		K90C20/C30-	20%,30%	V0	20%,30% Carbon Fiber reinforced, Super High	

Contact Us



Junghwa Chemical.,Ltd.

**#202, Sun bldg., 677-12, Yeoksam-dong, Gangnam-gu,
Seoul 135-915, Korea**

Tel : 02-539-6188 Fax : 02-539-8488

Email : junghwa@junghwchemical.com

Website : www.junghwchemical.com

Junghwa Chemical Co.,Ltd.