



DOWON INDUSTRY



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* HanGang INC (Vietnam)

PP
HIPS
ABS
PMMA
PC
PC/ABS
Nylon
PBT
PBT/Alloys

Your specialized Compounding Partner

Company Introduction

Dowon Industry is one of the fast growing compounding company in Korea.

Dowon was established in 1995 and continuously contributing many customers in automotive, electronics and other industrial fields.

We have been supporting customer to cost down it's production and fulfill customer's request at the same time.

Dowon has 4 production lines and has 7,000mt/year capacity.

We posses long time experience and abundant knowledge and know-hows for plastic compounding and providing valuable ideas to customers.

We have been doing business with several famous companies in Korea and getting good reputation.

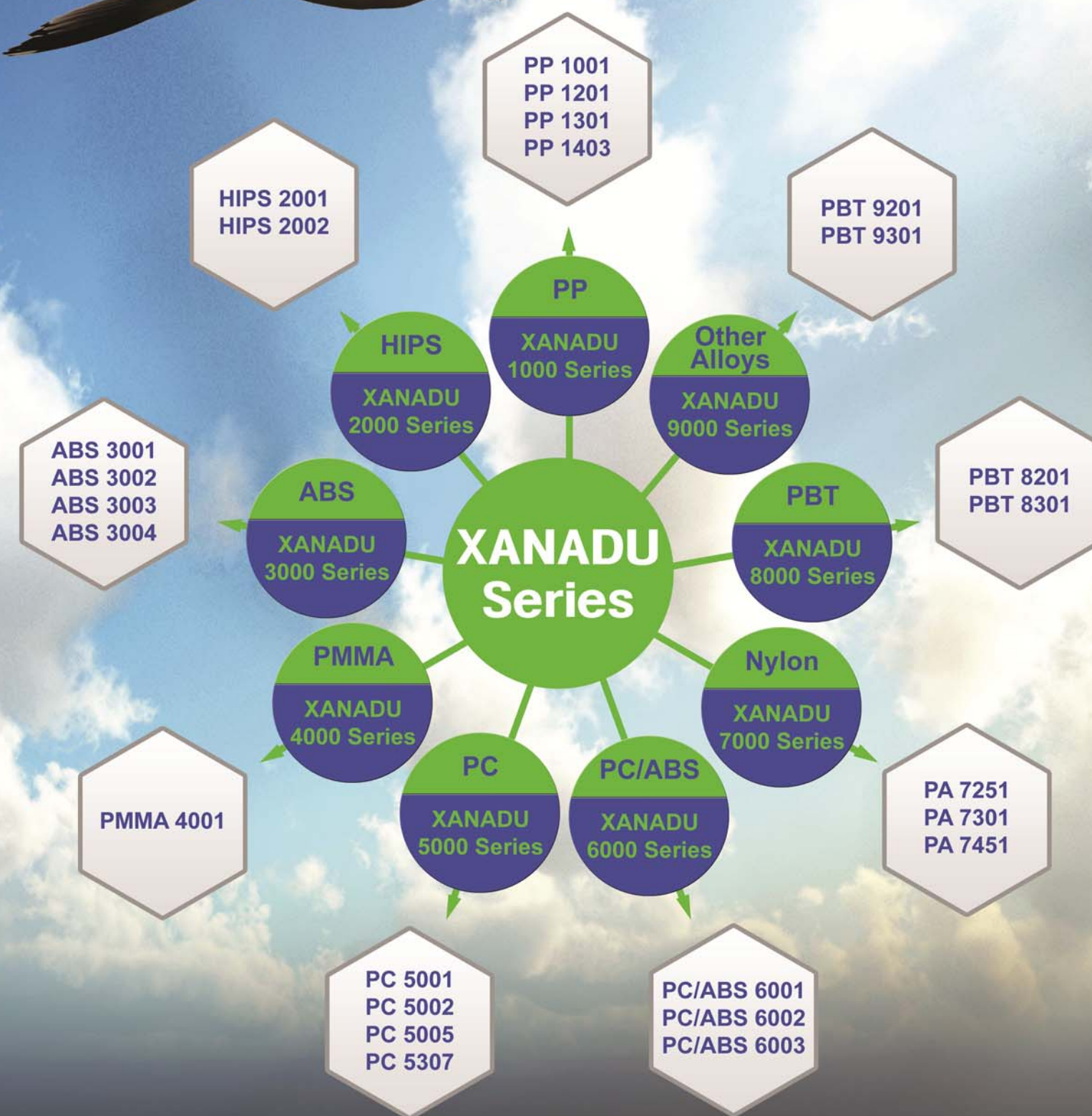
Now, Dowon is enlarging it's market to overseas and exporting it's product to Japan, China, Thailand, Vietnam, Bangladesh, and so on.

Hope we could make good cooperation with long term partner for mutual benefit.

Thanks,
S.B Kim

Company History

- Established in 1995.7.10
- Setup ABS Sheet Manufacturing Factory in 1998.5
- Built New Factory in Pyungtaek in 2000.
- Capacity Increase for ABS, PS (Capa : 5,000MT/Year) in 2002.
- Get Government Registration for Overseas Trading in 2003.
- Capacity Increase for PP Compound (Capa : 5,000MT/Year) in 2005.
- Get License as Venture Capital in 2008.
- Setup R&D Department in 2012.3





Becoming "Your specialized compounding partner" is goal of Dowon Industry.

Dowon is producing environmental friendly products which can contribute to make better and healthy life.

We well continuously develop more advanced material and new technology to meet several requests of customers all over the world. .



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XANADU PP Series

XANADU PP Series

XANADU PP 1004

XANADU PP 1004 series are impact reinforced PP compound with EPDM.

XANADU PP/GF 1201/1301

XANADU PP 1201, 1301 series are Glass Fiber reinforced Polyolefin Grade. It has good dimensional stability and high flow characteristics.



Application

AUTOMOTIVE PART	Bumper Cover, Side Molding, Bumper Bracket, Mud Guard, Door Trim
ELECTRIC APPLIANCE	Tool Handle, Roller Skate Wheel

Application

AUTOMOTIVE PART	Air-Conditioner Housing, Cooling Fan, Electrical Washer Pulley
INDUSTRIAL APPLICATION	Propeller Fan, Pump Housing, Fan Support

Physical Property

PROPERTIES		ASTM	UNIT	PP/RUBBER
Grade Name				XANADU PP 1004
Density		D792		0.89
MI		D1238	g / 10min	15
Impact Strength at 23℃		D256	kg·cm/cm	NB
H.D.T	(18.6Kg/cm ²)	D648	℃	87
	(4.6Kg/cm ²)	D648	℃	-
V.S.T		D1525	℃	-
Tensile Strength		D638	kg / cm ²	180
Tensile Elongation		D638	%	> 500
Flexural Strength		D790	kg / cm ²	240
Flexural Modulus		D790	kg / cm ²	8,500
Flammability (UL-94)				HB
Characteristics				

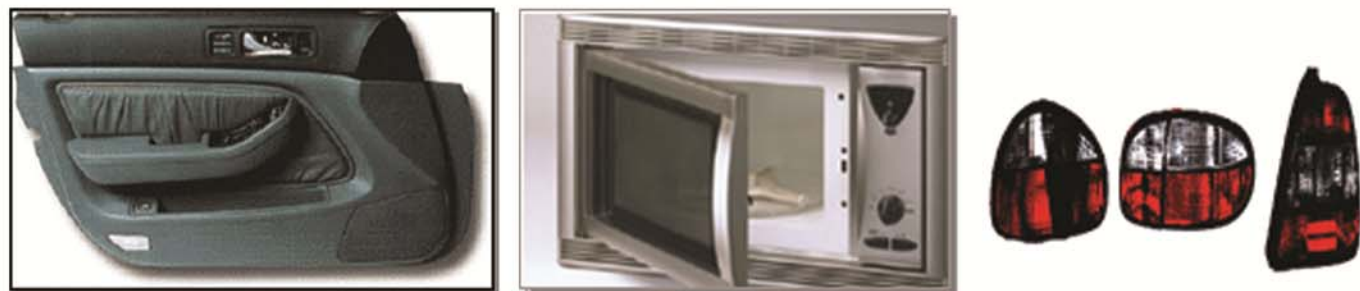
Physical Property

PROPERTIES		ASTM	UNIT	PP/GF 20%	PP/GF 30%
Grade Name				XANADU PP/GF 1201	XANADU PP/GF 1301
Density		D792		1.03	1.15
MI		D1238	g / 10min	-	-
Impact Strength at 23℃		D256	kg·cm/cm	5.0	8.0
H.D.T	(18.6Kg/cm ²)	D648	℃	-	-
	(4.6Kg/cm ²)	D648	℃	150	158
V.S.T		D1525	℃	-	-
Tensile Strength		D638	kg / cm ²	730	780
Tensile Elongation		D638	%	10	9
Flexural Strength		D790	kg / cm ²	980	1,180
Flexural Modulus		D790	kg / cm ²	35,000	49,000
Flammability (UL-94)				HB	HB
Characteristics					

XANADU PP Series

XANADU PP/RUBBER/TALC 1108/1308

XANADU PP 1108, 1308 are TALC reinforced high impact PP. It has excellent anti-scratch characteristics and dimensional stability with high impact resistance,.



Application

AUTOMOTIVE PART

Instrument Panel, Side Molding, Bumper Protector, Door Trim, Garnish

Physical Property

PROPERTIES		ASTM	UNIT	PP/RUBBER/TALC 10%	PP/RUBBER/TALC 30%
Grade Name				XANADU PP 1108	XANADU PP 1308
Density		D792		0.97	1.13
MI		D1238	g / 10min	20	15
Impact Strength at 23℃		D256	kg·cm/cm	NB	7.0
H.D.T	(18.6Kg/cm ²)	D648	℃	-	78
	(4.6Kg/cm ²)	D648	℃	99	-
V.S.T		D1525	℃	-	-
Tensile Strength		D638	kg / cm ²	170	260
Tensile Elongation		D638	%	300	30
Flexural Strength		D790	kg / cm ²	200	420
Flexural Modulus		D790	kg / cm ²	11,000	23,000
Flammability (UL-94)				HB	HB
Characteristics					

XANADU HIPS Series

XANADU HIPS 2001/2002

XANADU HIPS is very widely used for home appliances such as TV, audio and speaker which need high flow and stiffness. General and flame retardant grades are available.



Application

HOME APPLIANCE

TV Set, Tape Recorders, Vacuum Cleaners, Washing Machines, Air-Conditioner

Physical Property

PROPERTIES		ASTM	UNIT	HIPS 2000 SERIES	
Grade Name				XANADU HIPS 2001	XANADU HIPS 2002
Density		D792		1.04	1.14
MI		D1238	g / 10min	4	12
Impact Strength at 23℃		D256	kg·cm/cm	8.0	6.5
H.D.T	(18.6Kg/cm ²)	D648	℃	80	73
	(4.6Kg/cm ²)	D648	℃	-	-
V.S.T		D1525	℃	-	-
Tensile Strength		D638	kg / cm ²	340	300
Tensile Elongation		D638	%	50	40
Flexural Strength		D790	kg / cm ²	550	500
Flexural Modulus		D790	kg / cm ²	21,500	20,000
Flammability (UL-94)				HB	V-0
Characteristics					

XANADU ABS Series

XANADU ABS 3003/3003H/3003SR/3002

XANADU ABS series are very widely used material in many fields.
It is made of Acrylonitrile, Butadiene, and Styrene and has several good characteristics such as high gloss, good impact and high modulus.



Application

MONITOR, TV HOUSING	Monitor Case, TV, VTR, Printer, Fax and other electronic parts requiring flame retardant property
AUTOMOTIVE PARTS	Automobile interiors, Lamp Housing, Heater, Cluster Housing

Physical Property

PROPERTIES		ASTM	UNIT	ABS Series			
Grade Name				ABS 3003	ABS 3003H	ABS 3003SR	ABS 3002
Density		D792		1.05	1.05	1.05	1.2
MI		D1238	g / 10min	10	7	5	47
Impact Strength at 23℃		D256	kg·cm/cm	22	18	12	20
H.D.T	(18.6Kg/cm ²)	D648	℃	95	104	108	78
	(4.6Kg/cm ²)	D648	℃	-	-	-	-
V.S.T		D1525	℃	110	125	130	87
Tensile Strength		D638	kg / cm ²	420	460	480	430
Tensile Elongation		D638	%	30	28	20	20
Flexural Strength		D790	kg / cm ²	700	740	800	730
Flexural Modulus		D790	kg / cm ²	20,000	23,000	25,000	24,000
Flammability (UL-94)				HB	HB	HB	V-0
Characteristics				Middle Heat Resistance	High Heat Resistance	Supper High Heat Resistance	Frame Retardant

XANADU ABS Series

XANADU ABS 3001/3004/3001SH



Application

HOME APPLIANCE	Electric Home Appliances, General Merchandise, Tape Recorders, Audio, Air-Conditioner, Toys
HELMET & OTHER	Helmets, Pipe & Fittings, Mixer, Camera, Typewriter, Cash Resisters, Vacuum Cleaners
SHEET APPLICATION	Suitcase, Architecture Sheet, Refrigerator Door

Physical Property

PROPERTIES		ASTM	UNIT	HIPS 2000 SERIES		
Grade Name				ABS 3001	ABS 3004	ABS 3001SH
Density		D792		1.05	1.05	1.05
MI		D1238	g / 10min	35	12	6
Impact Strength at 23℃		D256	kg·cm/cm	21	42	40
H.D.T	(18.6Kg/cm ²)	D648	℃	90	90	91
	(4.6Kg/cm ²)	D648	℃	-	-	-
V.S.T		D1525	℃	97	98	105
Tensile Strength		D638	kg / cm ²	470	400	460
Tensile Elongation		D638	%	25	50	30
Flexural Strength		D790	kg / cm ²	720	570	750
Flexural Modulus		D790	kg / cm ²	22,000	17,000	25,000
Flammability (UL-94)				HB	HB	HB
Characteristics				General Purpose	High Impact	Extrusion

XANADU ABS Series

XANADU ABS/GF 3201/3301

XANADU ABS/GF series are Glass Fiber reinforced ABS and it has excellent dimensional stability and high modulus.



Application

AUTOMOTIVE PARTS	Main Core(Instrument Panel), Meter Box, Head Lamp Housing, Back Mirror Cover
ELECTRICAL APPLIANCE	Fax Frame, Tape Reel, Pan Cake Hub, Speaker Box, Cooling Fan, Washer Pullery
INDUSTRIAL APPLICATION	Fishing Reel, Bobbin, Camera Frame

Physical Property

PROPERTIES		ASTM	UNIT	ABS/GF 20%	ABS/GF 30%
Grade Name				ABS/GF 3001	ABS/GF 3004
Density		D792		1.05	1.05
MI		D1238	g / 10min	35	12
Impact Strength at 23℃		D256	kg·cm/cm	21	42
H.D.T	(18.6Kg/cm ²)	D648	℃	90	90
	(4.6Kg/cm ²)	D648	℃	-	-
V.S.T		D1525	℃	97	98
Tensile Strength		D638	kg / cm ²	470	400
Tensile Elongation		D638	%	25	50
Flexural Strength		D790	kg / cm ²	720	570
Flexural Modulus		D790	kg / cm ²	22,000	17,000
Flammability (UL-94)				HB	HB
Characteristics				General Purpose	High Impact

XANADU PC Series

XANADU PC 5001/5002

XANADU PC series are one of the most widely used engineering plastic in many application. It has excellent impact resistance, heat resistance and transparency.



Application

AUTOMOTIVE PARTS	Head Lamp Lens, Lamp Housing
ELECTRICAL APPLIANCE	Monitor Housing, Notebook Housing, Fax Frame, Cellular Phone Case, CD-ROM Driver Tray and Main Frame, Switch Battery Case, TFT-LCD BLF
INDUSTRIAL APPLICATION	Electrical Tool Housing, Distributing Board Box, Power Tool Component, Water Meter Housing

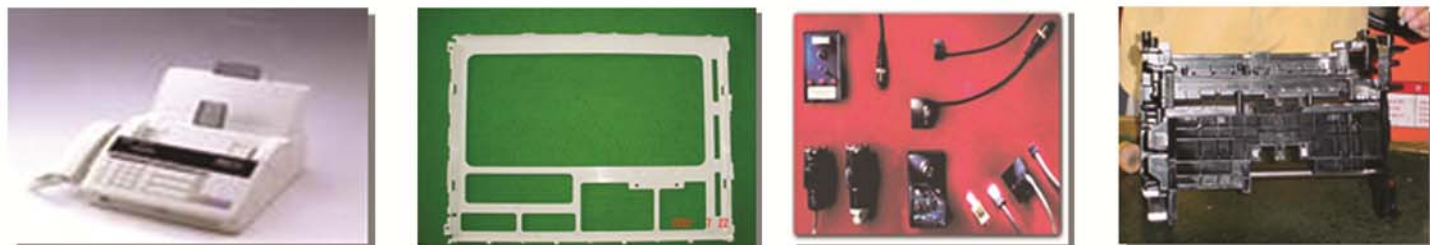
Physical Property

PROPERTIES		ASTM	UNIT	PC	PC (FR)
Grade Name				PC 5001	PC 5002
Density		D792		1.2	1.25
MI		D1238	g / 10min	15	25
Impact Strength at 23℃		D256	kg·cm/cm	60	50
H.D.T	(18.6Kg/cm ²)	D648	℃	135	130
	(4.6Kg/cm ²)	D648	℃	-	-
V.S.T		D1525	℃	-	-
Tensile Strength		D638	kg / cm ²	620	600
Tensile Elongation		D638	%	100	100
Flexural Strength		D790	kg / cm ²	1,000	950
Flexural Modulus		D790	kg / cm ²	25,000	24,500
Flammability (UL-94)				V-2	V-0
Characteristics				High Impact	Flame Retardant

XANADU PC Series

XANADU PC/GF 5157/5207/5157FR

XANADU PC/GF 5157/5207/5157FR series are Glass Fiber reinforced PC material. Based on Glass Fiber content, properties such as HDT, flexural modulus can be adjusted to meet customer's request



Application

AUTOMOTIVE PARTS	Lamp Housing, Filter Case, Fuel Case Cap
ELECTRICAL APPLIANCE	Fax Frame, Relay Case, Water Meter, Electric Tool Housing, Gears TFT-LCD Back Light Frame
INDUSTRIAL APPLICATION	Bobbin, Compressor Housing, Business Machine Frame, Connector

Physical Property

PROPERTIES		ASTM	UNIT	PC/GF 15%	PC/GF 20%	PC/GF FR
Grade Name				PC/GF 5157	PC/GF 5207	PC/GF 5157FR
Density		D792		1.3	1.35	1.44
MI		D1238	g / 10min	-	-	-
Impact Strength at 23℃		D256	kg·cm/cm	10	11	12
H.D.T	(18.6Kg/cm ²)	D648	℃	143	147	148
	(4.6Kg/cm ²)	D648	℃	-	-	-
V.S.T		D1525	℃	-	-	-
Tensile Strength		D638	kg / cm ²	820	1,150	1,500
Tensile Elongation		D638	%	5	6	4
Flexural Strength		D790	kg / cm ²	1,350	1,750	1,800
Flexural Modulus		D790	kg / cm ²	45,000	59,000	75,000
Flammability (UL-94)				V-0	V-2	V-2
Characteristics						

XANADU PC/ABS Series

XANADU PC/ABS ALLOY 6004/6002/6002NH

XANADU 6000 series are PC/ABS alloy material. Several kinds of grades are available such as high heat, high impact, high flow grade.



Application

AUTOMOTIVE PARTS	Instrument Panel, Consol Box, Glove Box Cover, Wheel Cover & Cap, Back Mirror Housing
ELECTRICAL APPLIANCE	Monitor Housing, Notebook Housing, Fax Frame, Cellular Phone Case, CD-ROM Driver Tray and Main Frame, Switch
INDUSTRIAL APPLICATION	Helmet, Terminal Box, Electrical Tool Housing, Distributing Board Box, Power Tool Component, Water Meter Housing

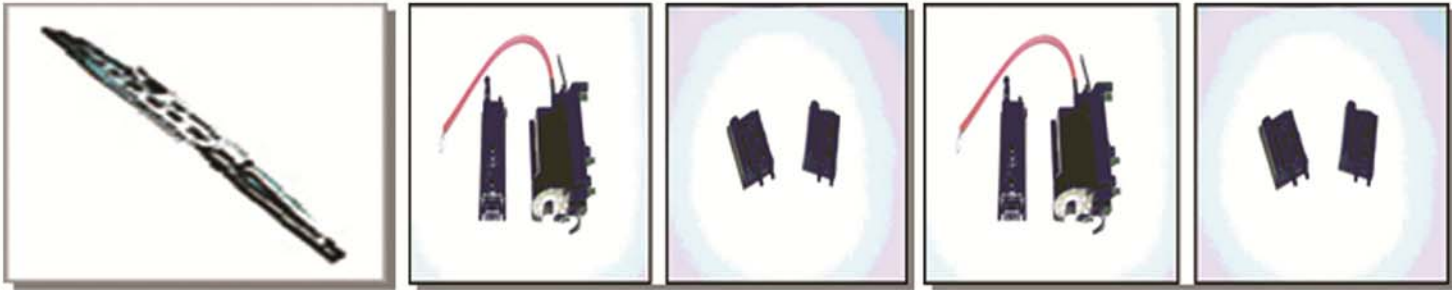
Physical Property

PROPERTIES		ASTM	UNIT	PC/ABS ALLOY Series		
Grade Name				PC/ABS 6004	PC/ABS 6002NH	PC/ABS 6002
Density		D792		1.13	1.13	1.13
MI		D1238	g / 10min	6	20	16
Impact Strength at 23℃		D256	kg·cm/cm	60	45	45
H.D.T	(18.6Kg/cm ²)	D648	℃	110	90	90
	(4.6Kg/cm ²)	D648	℃	120	105	105
V.S.T		D1525	℃	-	-	-
Tensile Strength		D638	kg / cm ²	538	510	520
Tensile Elongation		D638	%	90	85	85
Flexural Strength		D790	kg / cm ²	800	820	830
Flexural Modulus		D790	kg / cm ²	22,000	23,000	23,500
Flammability (UL-94)				HB	V-0	V-0
Characteristics				High Impact	non-Halogen	Brominated-FR

XANADU Nylon Series

XANADU Nylon/GF 7207/7307

XANADU 7207/7307 series are Glass Fiber reinforced Nylon grades.
it has excellent electrical characteristics, high heat stability and dimensional stability as well.



Application

AUTOMOTIVE PARTS	Mirror Housing, Assembly, Fuel filter
ELECTRICAL APPLIANCE	Connector, Bobbin, Clip, Fix Ring, Tool Housing, Fastener
INDUSTRIAL APPLICATION	Chair Case, Fishing Reel, Window Flame Roller, Cable Tie

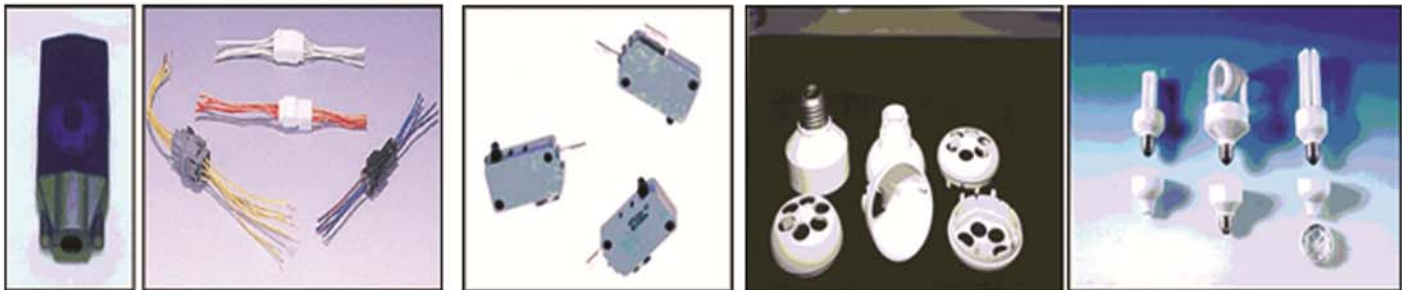
Physical Property

PROPERTIES		ASTM	UNIT	NYLON/GF 20%	NYLON/GF 30%
Grade Name				Nylon/GF 7207	Nylon/GF 7307
Density		D792		1.28	1.36
MI		D1238	g / 10min	-	-
Impact Strength at 23℃		D256	kg·cm/cm	7.5	12
H.D.T	(18.6Kg/cm ²)	D648	℃	205	245
	(4.6Kg/cm ²)	D648	℃	-	-
V.S.T		D1525	℃	-	-
Tensile Strength		D638	kg / cm ²	1,450	1,450
Tensile Elongation		D638	%	3.0	3.0
Flexural Strength		D790	kg / cm ²	2,200	2,800
Flexural Modulus		D790	kg / cm ²	60,000	93,000
Flammability (UL-94)				HB	HB
Characteristics					

XANADU PBT Series

XANADU PBT/GF 8207/8307

XANADU PBT/GF 8207/8307 series are Glass Fiber reinforced PBT material.
it has excellent electrical characteristics and widely used for electrical and industrial use
such as Lamp Socket, Bobbin, Connectors.



Application

AUTOMOTIVE PARTS	Frame Garnish, Door Handle, Connector, Control Device, Vent
ELECTRICAL APPLIANCE	Lamp Socket, Bobbin, Condenser, Switch Connector, Air-Conditioner Frame, Pipe Holder
INDUSTRIAL APPLICATION	Gear, Bracket, Pump Housing, Cable Connector

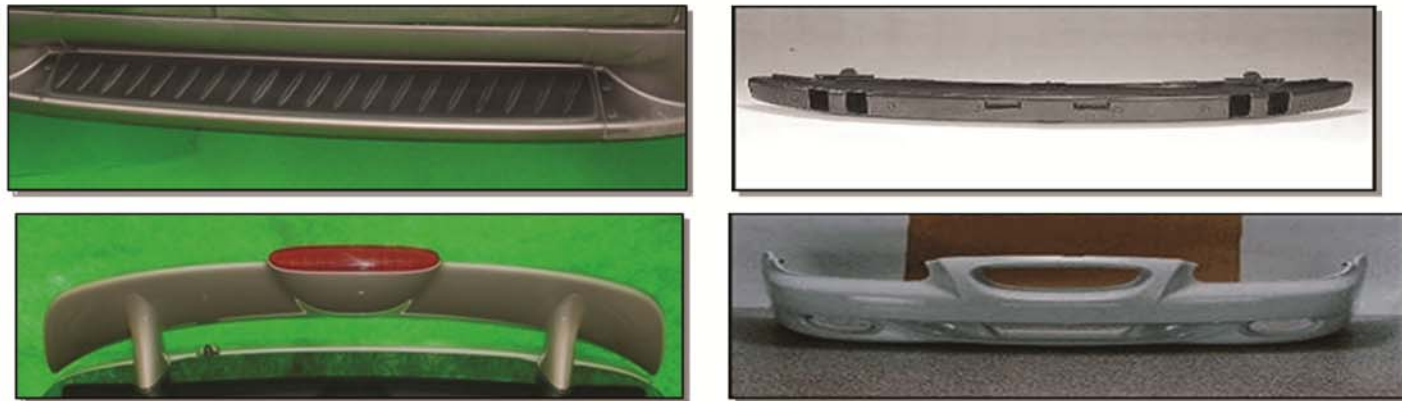
Physical Property

PROPERTIES		ASTM	UNIT	PBT/GF 20%	PBT/GF 30%
Grade Name				PBT/GF 8207	PBT/GF 8307
Density		D792		1.46	1.52
MI		D1238	g / 10min	-	-
Impact Strength at 23℃		D256	kg·cm/cm	6.5	7.5
H.D.T	(18.6Kg/cm ²)	D648	℃	205	210
	(4.6Kg/cm ²)	D648	℃	210	215
V.S.T		D1525	℃	-	-
Tensile Strength		D638	kg / cm ²	1,100	1,200
Tensile Elongation		D638	%	4.0	3.0
Flexural Strength		D790	kg / cm ²	1,650	1,800
Flexural Modulus		D790	kg / cm ²	60,000	78,000
Flammability (UL-94)				HB	HB
Characteristics					

XANADU ALLOY Series

XANADU PC/PBT & PC/PBT/ABS Alloy 9001/9004

XANADU 9001/9004 series are PC/PBT and PC/PBT/ABS alloy material. It has very high impact resistance and easy-painting characteristics.



Application

PC/PBT Alloy	AUTOMOTIVE	Bumper Facia, Bumper Back Beam, Outdoor Handle, Door Frame Garnish, Side Step, Air-Spoiler
	ELECTRICAL	Relay, Lamp Socket, Timer Case
PC/PBT/ABS Alloy	INDUSTRIAL & OTHER	Food Service Applications(BOWL), Communication Applications, Lawn and Garden Equipment

Physical Property

PROPERTIES		ASTM	UNIT	PC/PBT	PC/PBT/ABS
Grade Name				PC/PBT 9004	PC/PBT/ABS 9001
Density		D792		1.22	1.3
MI		D1238	g / 10min	-	-
Impact Strength at 23℃		D256	kg·cm/cm	NB	70
H.D.T	(18.6Kg/cm ²)	D648	℃	95	103
	(4.6Kg/cm ²)	D648	℃	110	115
V.S.T		D1525	℃	-	-
Tensile Strength		D638	kg / cm ²	480	520
Tensile Elongation		D638	%	> 100	120
Flexural Strength		D790	kg / cm ²	750	850
Flexural Modulus		D790	kg / cm ²	20,000	22,000
Flammability (UL-94)				HB	HB
Characteristics				High Impact	High Impact

XANADU ALLOY Series

XANADU ALLOY/GF 9207/9307

XANADU 9007 series are Glass Fiber reinforced Polymer alloy material. It has chemical resistance and mechanical strength.



Application

AUTOMOTIVE PART	Roof Molding, Lamp Connector, Cowl Vent Grille, Speaker Frame, Glove Box Housing
ELECTRICAL APPLICATION	Compressor Terminal Board, Impeller, Electric Tool Housing, Key Top

Physical Property

PROPERTIES		ASTM	UNIT	PBT/ABS/GF 20%	PBT/ABS/GF 30%
Grade Name				PBT/ABS/GF 9207	PBT/ABS/GF 9307
Density		D792		1.35	1.40
MI		D1238	g / 10min	-	-
Impact Strength at 23℃		D256	kg·cm/cm	8.5	9.0
H.D.T	(18.6Kg/cm ²)	D648	℃	160	170
	(4.6Kg/cm ²)	D648	℃	200	215
V.S.T		D1525	℃	-	-
Tensile Strength		D638	kg / cm ²	950	1,000
Tensile Elongation		D638	%	4.0	3.5
Flexural Strength		D790	kg / cm ²	1,350	1,400
Flexural Modulus		D790	kg / cm ²	50,000	75,000
Flammability (UL-94)				HB	HB
Characteristics					