



SPVC International has been distributing the engineering plastics for more than 40 years in Thailand.

"We are the sole distributor of Simona from Germany, Dehoplast from Germany, Frisylen from Germany, Mitsubishi from Japan, Plaswell from Korea, Poligon, Leavona and etc.

We have various kinds of engineering plastics e.g. PP, PPS, PP-SK, PP WITH POLYESTER BACKED, PVC, UPVC, CPVC, ESD PVC, ANTI-STATIC PVC, SOFT PVC, SEMI-RIGID PVC, PVC Foam sheet, PE, LDPE, PE100, HDPE, PE300, HMWPE, PE500, UHMWPE, PE1000, PVDF, PMMA, ACRYLIC, PA, NYLON, PC, POLYCARBONATE, PTFE, TEFLON, ECTFE, HALAR, PFA, PETG. Our product ranges from sheet, plates, welding rods, rods, bars, angle bars, profiles, valves, pipe, fittings, cutting pad, welding machine, welding tool and pipe welding machine.

Our core values of honesty and integrity have created trust and reliability from our customers. Our long experience will serve you with high quality products and services. We ensure that we will provide you with our professional advice to the best utilization at fair price.



KOREA

PP

PP - H consists entirely of a combination of propylene monomers and covers a temperature range from 0°C – 100°C

Properties

- High chemical resistance
- Excellent process ability
- Extreme toughness
- Excellent in contact with many acids , alkalis , and solvents
- Corrosion resistance
- Superior stress crack resistance

PP Sheets



Color : Grey / White / Natural

SIMONA®

Size (mm.)	1500 x 3000
Thickness (mm.)	2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30, 35, 40
Size (mm.)	1000 x 2000
Thickness (mm.)	40, 50, 60, 80, 100

PP Welding Rods



Color : Grey / White / Natural

SIMONA®

Type	○
Size (mm.)	3, 4, 5
Type	∞
Size (mm.)	3 x 6
Type	▽
Size (mm.)	4 x 2 x 2, 5 x 3 x 3 6 x 4 x 4, 7 x 5 x 5

PP Solid Rods



Color : Grey / Natural

SIMONA®

Type	○
Size OD (mm.)	6, 8, 10, 12, 16, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 180, 200, 250, 300
Length (mm.)	1000, 2000

PP Pipe



Standard : DIN

Length : 5000 mm. Color : Grey

SIMONA®

Type	PP Pressure Pipe			PP Ventilation Pipe
	PN 2.5	PN 6	PN 10	
20 mm. (1/2")			1.9	
25 mm. (3/4")			2.3	
32 mm. (1")			3.0	
40 mm. (1.1/4")		2.3	3.7	
50 mm. (1.1/2")		2.9	4.6	
63 mm. (2")		3.6	5.8	
75 mm. (2.1/2")		4.3	6.9	
90 mm. (3")		5.1	8.2	
110 mm. (4")	2.7	6.3	10.0	
125 mm. (4.1/2")	3.1	7.1	11.4	
140 mm. (5")	3.5	8.0	12.8	
160 mm. (6")	4.0	9.1	14.6	
180 mm. (6.1/2")	4.4	10.2	16.4	
200 mm. (7")	4.9	11.4	18.2	3.0
225 mm. (8")	5.5	12.8	20.5	
250 mm. (9")	6.1	14.2	22.8	3.5
280 mm. (10")	6.9	15.9	25.5	
315 mm. (12")	7.7	17.9	28.7	5.0
355 mm. (14")	8.7	20.1	32.3	5.0
400 mm. (16")	9.9	22.7	36.4	6.0
450 mm. (18")	11.0	25.5	41.0	7.0
500 mm. (20")	12.2	28.3	45.5	8.0
560 mm. (22")				8.0
630 mm. (25")				10.0
710 mm. (28")				12.0
800 mm. (32")				15.0

PP Fitting

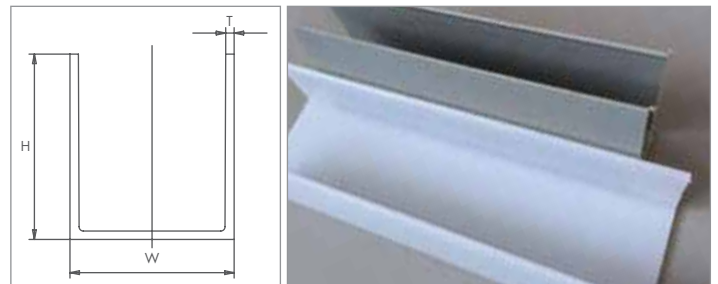


Color : Grey

SIMONA®

Size OD	Product Range
20 mm. (1/2")	Value
25 mm. (3/4")	
32 mm. (1")	Tee
40 mm. (1.1/4")	
50 mm. (1.1/2")	Elbow 45 Elbow 90
63 mm. (2")	
75 mm. (2.1/2")	Flange Stub-End
90 mm. (3")	
110 mm. (4")	Cap
125 mm. (4.1/2")	
140 mm. (5")	Socket
160 mm. (6")	

PP U Profile



Color : Grey / White

Type	Dimension			
	W (mm.)	H (mm.)	T (mm.)	L (mm.)
1.1/2" x 1.1/2"	48	46	3	4000
2" x 2"	62	60	5	4000
2" x 2"	58	56	3	5000
2" x 3"	58	84	4	4000
2" x 4"	60	105	5	4000
1.1/2" x 3"	48	84	3	5000
3" x 2"	88	54	4	4000
3" x 3"	88	84	3.5	5000

PVC-caw Sheets



Color : Grey / Dark Grey

SIMONA®

Size (mm.)	1000 x 2000
Thickness (mm.)	20, 25, 30, 35, 40, 50
Size (mm.)	1220 x 2440
Thickness (mm.)	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20

PVC-caw Welding Rods



Color : Grey

SIMONA®

Type	○
Size (mm.)	2, 3, 4
Type	∞
Size (mm.)	3 x 6
Type	▽♡
Size (mm.)	5 x 3 x 3, 6 x 4 x 4

PVC-caw Solid Rods



Color : Grey / Dark Grey

SIMONA®

Type	○
Size OD (mm.)	6, 8, 10, 12, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 100, 110, 120, 130, 140, 150, 160, 180, 200, 300, 500
Length (mm.)	1000, 2000

Polyvinylchloride (PVC) is an amorphous thermoplastic. Hard and brittle by nature, PVC can be adjusted for various fields of application with the help of specific additives. Its temperature range is between 0°C to 60°C.

Properties

- High chemical resistance
- Excellent process ability
- UV stabilized and weather resistance
- Low flammability

UPVC Sheets



Color : Grey / Dark Grey



Size (mm.)	1000 x 2000
Thickness (mm.)	20, 25, 30, 35, 40, 50
Size (mm.)	1220 x 2440
Thickness (mm.)	2, 3, 4, 5, 6, 8, 10, 12, 15, 20

Color : Ivory



Size (mm.)	1220 x 2440
Thickness (mm.)	3, 4, 5, 6, 8, 10, 15, 20

UPVC Welding Rods



Color : Grey / Blue / Ivory / Transparent



Type	○
Size (mm.)	2, 3, 4
Type	∞
Size (mm.)	3 x 6
Type	▽♡
Size (mm.)	5 x 3 x 3, 6 x 4 x 4

UPVC Solid Rods



Color : Grey / Dark Grey

Type	○
Size OD (mm.)	6, 8, 10, 12, 16, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 180, 200, 250, 300
Type	⬡
Size Hexagon (mm.)	10, 12, 14, 17, 19, 22, 25, 28, 32, 36
Length (mm.)	1000, 2000

UPVC Angle Bars



Color : Grey

Size (mm.)	30 x 30 x 4 40 x 40 x 5 50 x 50 x 6 60 x 60 x 7 75 x 75 x 9
Length (mm.)	4000

UPVC Pipe & Fitting

Standard : JIS, ANSI, SCH 80

Color : Dark Grey



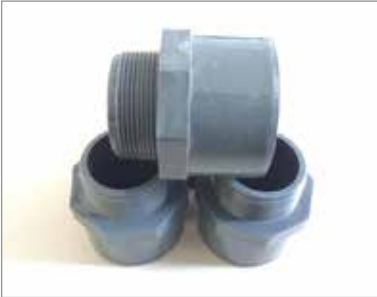
Pipe

Size	1/2" - 12"
Length	5800 mm.



Elbow 90

Size	1/2" - 12"
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Adaptor Socket

Size	1/2" - 4"
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Elbow 45

Size	1/2" - 12"
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Flange

Size	1/2" - 12"
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Coupling

Size	1/2" - 12"
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Tee

Size	1/2" - 12"
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Reduce Coupling

Size	1/2" - 12"
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Union

Size	1/2" - 4"
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Cap

Size	1/2" - 12"
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Ball Valve

Size	1/2" - 4"
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Ejector

Size	1/2" - 4"
Color	Grey / Blue

PVC Semi-Rigid

Properties

- Plasticized Polyvinylchloride
- Easily welded with reliable result
- Also suitable for the vibration absorbing ducting for Fan or Scrubber, Flexible joint duct

- UV resistible, weather proof and long service life
- Extremely flexible Plasticized PVC sheet, available in roll
- Exceptional chemical resistant at high temperature zone
- Suitable for lining inside hard-chrome plating tank

Soft PVC Sheets



Color : Dark Grey

Size (mm.)	1000 x 10000
Thickness (mm.)	2, 3

Soft PVC Welding Rods

Color : Dark Grey

Type	∞	○
Size (mm.)	3 x 6	3

UPVC Transparent

Polyvinyl chloride is a flame retardant material with an exceptional chemical resistance and also with lower stress cracking operating temperature is from 0°C to 60°C It can also be easily solvent, cemented and welded.

Properties

- High mechanical strength, tensile strength
- Low water absorption

- Good insulation properties for electronics
- Low impact strength

Clear UPVC Pipe



Standard : SCH 40, JIS

Length : 3000, 4000 mm. Color : Transparent

Size	OD (mm.)	ID (mm.)	T (mm.)
3/8" (13A)	18	13	2.5
1/2" (15A)	22	16	3.0
3/4" (20A)	26	20	3.0
1" (25A)	32	26	3.0
1" (25A)	34	28	3.0
1.1/4" (32A)	42	35	3.5
1.1/2" (40A)	48	40	4.0
2" (50A)	60	50	5.0
2.1/2" (65A)	76	68	4.0
3" (75A)	89	79	5.0
4" (100A)	114	104	5.0
6" (150A)	168	153	7.5

Clear UPVC Sheets



Color : Transparent

Size (mm.)	1212 x 2424
Thickness (mm.)	2, 3, 4, 5, 6, 8, 10, 15, 20

Clear UPVC Welding Rods

Color : Transparent

Type	○	
Size (mm.)	2, 3	
Type	∞	∞
Size (mm.)	3 x 6	5 x 3 x 3

CPVC

Post-chlorinated polyvinyl chloride (CPVC) is a post-chlorinated form of PVC. It has a higher heat distortion temperature and is more resistant to chemicals, particularly to chlorine attack. The temperature range is from -40 to 95°C.

Properties

- High chemical resistance
- Excellent process ability
- UV stabilized and weather resistance
- Low flammability

CPVC Sheets



Color : Dark Grey

Size (mm.)	1212 x 2424, 1000 x 2000
Thickness (mm.)	3, 5, 6, 8, 10, 12, 15, 20, 25

CPVC Welding Rods

Color : Dark Grey

Type	○
Size (mm.)	3
Type	∞
Size (mm.)	3 x 6

CPVC Solid Rods

Length : 1000 mm. Color : Dark Grey



OD	10 mm.
OD	16 mm.
OD	20 mm.
OD	30 mm.
OD	40 mm.
OD	50 mm.
OD	60 mm.
OD	70 mm.
OD	80 mm.

CPVC Fitting



Standard : SCH 80, JIS

Color : Red-Brown, Grey

CPVC Pipe

Length : 4000 mm. Color : Red-Brown, Grey



OD	18 mm.
OD	22 mm.
OD	26 mm.
OD	32 mm.
OD	38 mm.
OD	48 mm.
OD	60 mm.
OD	76 mm.
OD	89 mm.
OD	114 mm.
OD	140 mm.

Size OD	Product Range	
26 mm. (1/2")	Socket	
29 mm. (3/4")		
34 mm. (1")	Tee	
41 mm. (1.1/4")		
46 mm. (1.1/2")	Elbow 90	
56 mm. (2")		
69 mm. (2.1/2")	Reduce Socket	
87 mm. (3")		
130 mm. (4")	Flange	

Anti-Static PVC (ESD PVC)

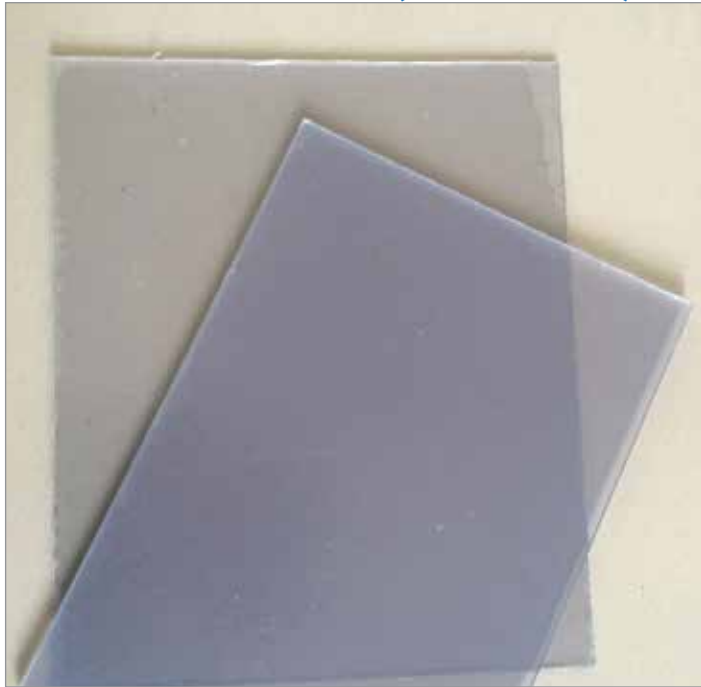
ESD possess a reduced surface resistivity. This property will be applied wherever static charge of plastic components needs to be avoided. In sensitive applications such as electronics voltages of over 100 volts are already sufficient to irreparably destroy circuits. In fire-hazardous facilities spark overs may cause fires or even explosions.

- Volume resistivity : $< 10^{15} \Omega \cdot \text{cm}$
- Surface resistivity : $< 10^8 \Omega$

Properties

- Flame retardant
- High chemical resistance
- Self-extinguishing
- Low water absorption

Anti-Static PVC (ESD PVC) Sheets



Color : Transparent

Size (mm.)	1000 x 2000
Thickness (mm.)	10
Size (mm.)	1212 x 2424
Thickness (mm.)	3, 5

Data of Anti-Static PVC

Items	Test Method	Units	
Specific gravity	JIS K 7112	g/cm ³	1.4
Water absorptivity	JIS K 7209	%	0.03
Tensile yield strength	AS K 7162	MPa	71
Tensile modulus of elasticity	JIS K 7162	MPa	3000
Deflection temperature under load	JIS K 7191	°C	59



PVDF

Polyvinylidene fluoride (PVDF) is a partially fluorinated high-performance plastic that can be deployed at temperatures ranging from -30°C to +140°C it is resistant to the majority of organic and inorganic media.

Properties

- Very good chemical resistance
- UV stabilized and weather resistance
- Excellent process ability
- Low flammability
- Physiologically safe
- Broad temperature range



PVDF Sheets

Color : White

SIMONA®

Size (mm.)	1500 x 3000
Thickness (mm.)	2, 3, 4, 5, 6, 8, 10, 12, 15, 20

PVDF Welding Rods

Color : White

Type	○	◊
Thickness (mm.)	3, 4	5 x 3 x 3

PVDF Solid Rods

Length : 1000 mm. Color : White

Type	○
OD (mm.)	10 - 200

ACRYLIC

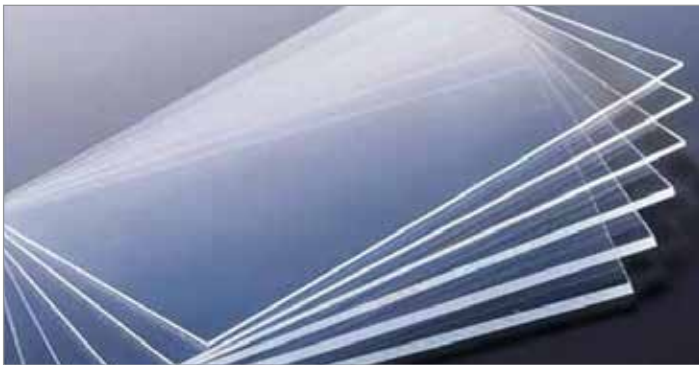
Polymethylmethacrylate (Acrylic) brittle and shows a good mechanical strength, tensile strength and hardness. PMMA is also sc.

Properties

- Very high mechanical strength and hardness
- High mechanical rigidity
- Excellent transparency
- Low chemical resistance
- Possible stress problems
- Easy to polish

PMMA Sheets

Color : Transparent



Size (mm.)	1220 x 2440
Thickness (mm.)	2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25

PMMA Tube

Length : 1000 mm. Color : Transparent



Size OD x ID	T (mm.)
15 x 9	3
20 x 14	3
30 x 24	3
40 x 34	3
50 x 44	3
60 x 54	3
90 x 84	3
100 x 94	3

High-density polyethylene PE - HD displays high chemical resistance and offers strength and rigidity within a temperature range of between -50°C to +80°C. According to the creep behavior of PE - HD materials.

Properties

- High chemical resistance
- High abrasion resistance
- Corrosion resistance
- Excellent processing qualities
- Light resistance
- Very good welding

HDPE Sheets



Color : Black / White

SIMONA®

Size (mm.)	1500 x 3000
Thickness (mm.)	3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30, 40, 50

HDPE Welding Rods



Color : Black / White

SIMONA®

Type	○
Size (mm.)	3, 4
Type	◇
Size (mm.)	5 x 3 x 3, 6 x 4 x 4
Type	▽
Size (mm.)	6 x 4

PE-1000

Ultra-high-molecular-weight polyethylene plays a particularly prominent role within our portfolio of pressed sheets and finished parts. Owing to their low coefficient of friction, the temperature range for products within this category is between -260°C to +80°C.

PE-1000 Sheets



Color : Green / White / Black

SIMONA®

Size (mm.)	1000 x 2000
Thickness (mm.)	8, 10, 12, 15, 20, 25, 30

Engineering Plastic



POM

Temperature : -40 – 105°C Shore - Hardness : 80 Color : White/Black

POM Sheets

Size (mm.)	1000 x 2000
Thickness (mm.)	3 – 50

POM Solid Rods

OD (mm.)	4 – 300
Length (mm.)	1000



TEFLON

Temperature : -200 – 220°C Shore - Hardness : 60 Color : White/Black

TEFLON Sheets

Size (mm.)	1000 x 1000
Thickness (mm.)	4 – 70

TEFLON Solid Rods

OD (mm.)	4 – 250
Length (mm.)	1000



NYLON

Temperature : -40 – 100°C Shore - Hardness : 70 Color : White

NYLON Sheets

Size (mm.)	1000 x 2000
Thickness (mm.)	1 – 70

NYLON Solid Rods

OD (mm.)	20 – 150
Length (mm.)	1000



CAST NYLON

Temperature : -40 – 105°C Shore - Hardness : 73 Color : Ivory

CAST NYLON Sheets

Size (mm.)	1000 x 2000
Thickness (mm.)	5 – 80

CAST NYLON Solid Rods

OD (mm.)	25 – 150
Length (mm.)	1000



MC NYLON

Temperature : -40 – 95°C Shore - Hardness : 84 Color : Blue

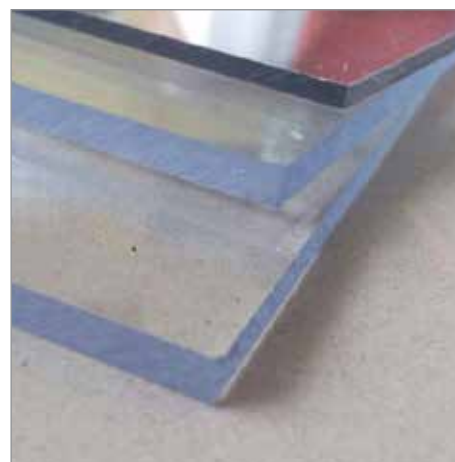
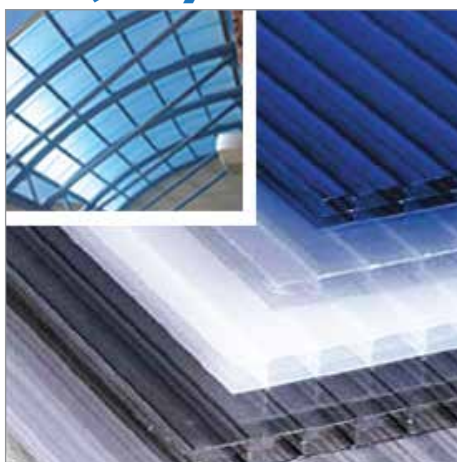
MC NYLON Sheets

Size (mm.)	1000 x 2000
Thickness (mm.)	5 – 90

MC NYLON Solid Rods

OD (mm.)	8 – 250
Length (mm.)	1000

PC (Polycarbonate)



PC Sheets

Size (mm.)	1220 x 2440
Thickness (mm.)	1, 2, 2.5, 3, 5, 6, 8, 10

PC Twin Wall Sheets

Size (mm.)	1220 x 2440 2100 x 6000
Thickness (mm.)	6

SIMOLIVE EVA

SIMONA®



SIMOLIVE EVA Flex

Color : Natural (Translucent)

Size (mm.)	400 x 400, 2000 x 1000
Thickness (mm.)	3, 4, 6, 8, 9, 10, 12, 15

Color : Skin-coloured

Size (mm.)	400 x 400
Thickness (mm.)	6, 8, 10, 12

SIMOLIVE EVA Superflex

Color : Natural (Translucent)

Size (mm.)	400 x 400
Thickness (mm.)	6, 9, 10, 12, 15

Cutting Pads

frisylen®



JN 480 Color : Natural

SP Color : Green

BNL Color : Reddish Brown

Size (mm.)	900 x 450, 1000 x 500, 2000 x 1000
Thickness (mm.)	10 – 80

PP Flame Retardant (PPs)

SIMONA®



PPs Sheets

Color : Dark Grey

Size (mm.)	1500 x 3000
Thickness (mm.)	2, 3, 4, 5, 6, 8, 10

PP Backing with Fabric

SIMONA®



PP Backing Sheets

Color : Grey

Size (mm.)	1500 x 3000
Thickness (mm.)	3,4,5,6,8,10

Welding Machines, Tools and Accesories

Hot Air Tools



Triac ST
Technical data

Designation	EU, push-fit
Art no.	141.227
Voltage	230 V
Power	1600 W
Frequency	50/60 Hz
Temperature	40 – 700°C (100 – 1290°F)
Air volume	(20°C) max. 240 l/min (68°F) max. 8.48 cfm
Nozzle holder for plug-in nozzles	31.5 mm 1.24 inch
Emission LpA	67 dB
Dimensions (ø Blower x L x ø Handle)	ø 90 x 336 x ø 56 mm ø 3.5 x 13.2 x ø 2.2 inch
Weight (without power cord)	< 1 kg (990 g) 2.18 lbs

Socket Fusion Machine



Model 1

OD	20 – 63 mm
Voltage	110V or 220V

Model 2

OD	75 – 110 mm
Voltage	110V or 220V

Extruder

Welding materials	PP, PE
Welding performance	2Kg/h with 4 mm welding wire-Φ
Welding wire	Circular, 4 mm Φ
Application area	Container construction, Wall thicknesses of 4-20 mm
Weight	5 Kg
Drive	1100 W, 230 V
Extruder heater	Hot air
Air heater	3400 W, 230 V
Air supply	Internal air supply Autoair



Butt Fusion Welding Machine



Feature

Suitable for welding of plastic pipes and/or fittings made of PE, PP and PVDF can be operated in any complex work condition. Consists of basic frame, planing tool, heating plate and support for planing tool and heating plate. Removable PTFE coated heating plate with separate temperature control system and electric planing tool.

Specifications: TPWM 160D

Welding Range	63mm – 160mm
Temperature Range	0°C – 270°C
Temperature variable	±5°C
Power of Heating Plate	1.2KW/220V
Power of Planning Tool	1.1KW/220V
Power Supply	220V, 50Hz

Specifications: TPWM 200D

Welding Range	63mm – 200mm
Temperature Range	0 °C – 300°C
Temperature variable	±5°C
Power of Heating Plate	1.2KW/220V
Power of Planning Tool	1.1KW/220V
Power Supply	220V, 50Hz

Specifications: TPW 250

Welding Range	90mm – 250mm
Temperature Range	0°C – 300°C
Temperature variable	±3°C
Power of Heating Plate	2.0KW/220V
Power of Planning Tool	1.1KW/220V
Power of Hydraulic Station	0.75 KW



Application of Products



Storage Tank HDPE



Storage Tank PP(N)



Storage Tank PP



Plating System



Wet Scrubber

NOTE
