



PROFESSIONAL WELDING EQUIPMENTS



Product Catalog

www.prolektro.com.tr

www.plastikelektrot.com

1. ABOUT US

Our company has a quarter of a century experience in plastic welding sector, PLASTEK PVC İNŞ.SAN.TİC.LTD.ŞTİ was founded in 1993 by Mr. I. Metin Ersoy.

Based on long-term work experience, the company has created a new business segment in the automotive and motorcycle plastic welding sector.

Our company is constantly developing its technology and development, conducting practical research work.

The company is engaged in the production and sale (in foreign and domestic market) of plastic electrodes, manual hot air welding machines and other repair equipment of the “RROLEKTRO” brand.

Our products are fully compatible with plastic parts from different manufacturers and meet all necessary standards in all around the globe.

2. Products

1. Plastic Welding Rods (electrodes)

- 1.1. Welding Rods PP Black and White** p.4
- 1.2. Welding Electrodes ABS** p.5
- 1.3. Welding Electrodes PE** p.6
- 1.4. Welding Electrodes PA** p.7
- 1.5. Welding Electrodes POM** p.8
- 1.6. Welding Electrodes ASA** p.8

2. Welding Hot Air Hand Tools

- 2.1. PRO-LEK 9000** p.9

3. Plastic Welding Repair Kits

- 3.1. PRO-LEK 9000 Plastic Welding Repair Kit** p.11

4. Heating Elements

- 4.1. Heat element (Resistance)** p.13
- 4.2. Mica Tube** p.13

5. Plastic Welding Accessories

- 5.1. Welding Nozzle** p.14

6. Tools for Repair

- 6.1. Clamp-Clip for bumper** p.15

7. Adhesive Products

- 7.1. PUR-FAST** p.16

1. Plastic Welding Rods (electrodes)

1.1. Welding Rods PP Polypropylene Black and White



Code	Type	Colour	Width	Gram
PRP - 3001	PP	Black	Thin (7mm)	100 g
PRP - 3002	PP	Black	Wide (11mm)	100 g
PRB - 4001	PP	White	Thin (7mm)	100 g
PRB - 4002	PP	White	Wide (11mm)	100 g

This plastic material used most commonly in automobiles. It is commonly used in the plastic parts of the vehicle'e bumper, air filters, fibre front boards, front wall of the headlamp housing, center stack, door panels, radiators, auxiliary water chamber, fan shroud and sump guards.



While working with the PP electrode, appropriate temperature should be set with adjustable heat gun and welding Groove operation should be done absolutely as in other plastics and thin, and wide electrodes should be used respectively in the front and back surfaces. Cleaning and necessary processes should be carried out following the repair. Welded tangent supports at appropriate distances starting and finishing points may provide better solutions.

1. Plastic Welding Rods (electrodes)

1.2. Welding Electrodes ABS Acrylonitrile Butadiene Styrene



Code	Type	Colour	Width	Gram
PRS - 7001	ABS	Black	Thin (7mm)	100 g
PRS - 7002	ABS	Black	Wide (11mm)	100 g

ABS is a hard plastic that is widely used on automobiles and motorcycles. The vehicle's bumper plastics, mirrors, front blinds, rear stop link feet and motorcycle outer grenages are welded with this electrode.

One-layer welding should be done with thin welding electrode at the front face of the material and back face should be welded with wide electrode following welding Groove operation.



Cooling from the surface of ABS, a hard plastic derivative, gives better results. Leveling operations should be done at the end of the repair as in other applications.

1. Plastic Welding Rods (electrodes)

1.3. Welding Electrodes PE Polyethylene



Code	Type	Colour	Width	Gram
PRE - 6001	PE	Black	Thin (7mm)	100 g
PRE - 6002	PE	Black	Wide (11mm)	100 g
PRE - 6003	PE	White	Thin (7mm)	100 g
PRE - 6004	PE	White	Wide (11mm)	100 g

PE welding electrode which is generally used in glass water tank (white), fuel tank (black).



When working on the damaged product, after the temperature is adjusted according to the wall thickness of the part to be repaired, the welding mouth should be done on the surface to be welded, then single layer application with narrow welding electrode and top layer welding with wide electrode should be applied.

At the end of welding, it should not be cooled with air or water. (It should cool itself). The open covers of the reservoirs are closed and the product is ready for use by a leakproofness test with compressed air.

1. Plastic Welding Rods (electrodes)

1.4. Welding Electrodes PA Polyamide



Code	Type	Colour	Width	Gram
PRA - 5001	PA	Black	Thin (7mm)	70 g
PRA - 5002	PA	Black	Wide (11mm)	70 g

This plastic material used mostly under the engine hood. With this electrode; Intake manifold, water radiator reservoir, fiber-free front panel and plastic fenders are welded.

It is necessary to apply the welding mouth while working with this electrode.



WARNING: Welding must be done by holding the electrode at 100 degree angle and welding machine at 50 degree angle. Heat should be applied to the electrode if the floor is thin, and more if the floor is thick.

1. Plastic Welding Rods (electrodes)

1.5. POM Polyoxymethylene Electrode



Code	Type	Colour	Width	Gram
PRO - 8001	POM	White	Thin (7,5mm)	100 g

POM electrodes produced only in a narrow size.

Usually used in an automobile, wiper arms, signal arms, automatic gear mechanism plastic, bumper bracket feet, tank float plastic and water jet engine plast.

Warning: welding should be done at about 400 °C.

1.6. Welding Electrodes ASA



Code	Type	Colour	Width	Gram
PRO - 8002	ASA	Black	Thin (7,5mm)	100 g

ASA electrodes produced only in black colour and narrow size.

Usually used in Grille, Mirror, Fog Lamp, Motorcycle Flanges, Bumper Brackets and Wiper Arms

Note:

The products to be welded should be processed by taking into account the codes on the plastic parts.

2. Welding Hot Air Hand Tools

2.1. PRO-LEK 9000

Technical Characteristics of the Welding Machine:

Voltage	:220-230
Power	:1650 W
Frekans	:50/60 HZ
Temperature	:40-700 °C
Air flow	:9-13.8 m/s
Static pressure	:approx3000 Pa
Noise level	:75 d
Cable length	:3m
Weight (without cable)	:975g



PRO-LEK 9000 series device is air conditioned at temperatures from 40 °C to 700 °C. The air blow is fixed. There is a 1550 watts heating elements in the heater section. The total machine is 1650 Watts. Open works from the close button. The thermometer is set with the red dial potentiometer, which is the numerator. The change of heating elements should be with 1550 watts heating elements. If you replace the heating element incorrectly, it may cause the welding machine to malfunction. Two year warranty except for heating elements and mica tube.



Before starting work with plastic welding machine, make sure that the heater is set to “0” position. Bring it to the cooling stage of the appliance and cool it down at the end of use. Remove the appliance from the plug and clean the dust filter at the back with moisture-free compressed air.

3. Plastic Welding Repair Kits

3.1. PRO-LEK 9000 Plastic Welding Repair Kit

In the PRO-LEK 9000 Repair Kit is available:

-1 pcs 9000 series Plastic Welding Machine

-20 packs of Electrodes

-1 pcs 5,5mm ~ 6,0mm Nozzle

-1 pcs Spray bottle

The types and sizes of electrodes contained in a set of 20 packages are presented in the table below.



Refer to page 9 for PRO-LEK 9000 Plastic Repair Welding Kit for technical specifications and a description of the 9000 series Hot Air Welding Gun.

Two year warranty except for Heating Elements and Mica Tube

ELECTRODE TYPES AND DIMENSIONS IN SET				
ELECTRODE TYPE	LENGTH (mm)	WIDTH (mm)	NUMBER OF PACKAGES IN A SET	PACKAGE WEIGHT (gram)
PP THIN	430 mm	7 mm	2	100 g
PP WIDE	430 mm	11 mm	2	100 g
PP WHITE THIN	430 mm	7 mm	2	100 g
PP WHITE WIDE	430 mm	11 mm	2	100 g
PA THIN	430 mm	7 mm	2	70 g
PA WIDE	430 mm	11 mm	2	70 g
ABS WIDE	430 mm	11 mm	2	100 g
ABS THIN	430 mm	7 mm	2	100 gp
PE WHITE THIN	430 mm	7 mm	1	100 g
PE WHITE WIDE	430 mm	11 mm	1	100 g
PE BLACK THIN	430 mm	7 mm	1	100 g
PE BLACK WIDE	430 mm	11 mm	1	100 g

The kit has 20 packs of electrodes.

4. Heating Elements

4.1. Heat element (Resistance)

Code	Type	Watts	Volts
PRR-B1550		1550 W	230 V
PRR-B900		900 W	230 V

Our devices use ceramic heating elements. The heating element has a plug and socket.

4.2. Mica Tube

Code	Type
PRM-T001	

The mica tube is an element that fixes the heating element and reduces the thermal conductivity in the chrome tube.

5. Plastic Welding

Accessories

5.1. Welding Nozzle

Code	Type	Size
PRN-8001		5,5mm ~6,0mm

Welding Nozzle, which our company considers suitable for plastic repair, has an internal diameter of 5.5 mm ~ 6.0 mm.

Before operating the welding machine, bolt on the nozzle must be loosened and tightened after passing to the end.

6. Tools for Repair

6.1. Clamp Clip for bumper

Code	Type
TMP-A001	

The Clamp Clip for bumper made of light and sturdy metal is the equipment that allows you to make repairs without needing any other help by bringing the ends of the broken area to an equal height during welding.

7. Adhesive Products

7.1. PUR-FAST SET

Universal two-component adhesive.
Produced in 2 tubes in 100 g + 100 g

Product content:

- 10 pieces of mixing paper
- 2 pieces of spatula
- textured fiberglass tape

PUR shows high bonding strength on plastic surfaces.

Applications Area: Products from rigid thermoplastic and thermosetting plastics, composite materials, products PUR-RİM, metal, wood, concrete, glass, porcelain and ceramic.



RECOMMENDED REPAIR SCHEME

