



# Plastic WEEE Recycling

## ADDED VALUE TO PLASTIC WASTE FROM ELECTRICAL AND ELECTRONIC EQUIPMENT

### KEY WORDS

PLASTIC  
SUSTAINABILITY,

RECYCLING,

WEEE

### DESCRIPTION

Tailored recycling strategies for blends of High Impact Polystyrene (HIPS)/Acrylonitrile Butadiene Styrene (ABS) from WEEE with and without compatibilization. Added value by mechanical performance improvement. This recycled material can directly replace starting HIPS or ABS used in electronic equipment.

### POTENTIAL BENEFITS OR IMPACTS

- Avoids final disposal of WEEE plastics
- Avoids plastic-type separation
- Reduces labor costs
- Minimizes plastic waste
- Increases recyclers' profits
- Adaptable to traditional recycling systems

### TECHNOLOGY MATURITY LEVEL (TRL)

TRL 5: validation in relevant environment

### AREA OF APPLICATION

- Plastic waste management
- Base material for Electrical and Electronic housings
- Public lighting
- Car lights
- Optical housings

### CONTACT US

[yvazquez@plapiqui.edu.ar](mailto:yvazquez@plapiqui.edu.ar)

[Universidad Nacional del Sur](#)