

## Plastic Recycling

Scan	Sensor Number
P&G Herbal Essences shampoo	6130007

Model: Plastic Recycling, version 8dcfb536d7904438a41466c5e68ddc8c

## Plastic #1 - PETE or PET (Polyethylene Terephthalate)

### Plastic Recycling Number

This demonstrates a use of the NIRscan Nano for identifying plastics, by recycling number, using near-infrared (NIR) spectroscopy data in the 900nm - 1700nm wavelength range.

Recycling Number	Abbreviation	Polymer Name	Typical Uses
1	PETE or PET	<a href="#">Polyethylene terephthalate</a>	Polyester fibers (Polar Fleece), thermoformed sheet, strapping, soft drink bottles, tote bags, furniture, carpet, paneling and (occasionally) new containers.
2	HDPE or PE-HD	<a href="#">High-density polyethylene</a>	Bottles, grocery bags, milk jugs, recycling bins, agricultural pipe, base cups, car stops, playground equipment, and plastic lumber
3	PVC or V	<a href="#">Polyvinyl chloride</a>	Pipe, Window profile, Siding, fencing, flooring, shower curtains, lawn chairs, non-food bottles and children's toys.
4	LDPE or PE-LD	<a href="#">Low-density polyethylene</a>	Plastic bags, 6 pack rings, various containers, dispensing bottles, wash bottles, tubing, and various molded laboratory equipment
5	PP	<a href="#">Polypropylene</a>	Auto parts, industrial fibers, food containers, and dishware
6	PS	<a href="#">Polystyrene</a>	Desk accessories, cafeteria trays, plastic utensils, toys, video cassettes and cases, clamshell containers, packaging peanuts, and insulation board and other expanded polystyrene products (e.g., Styrofoam)
7	OTHER or O	Other plastics, such as acrylic, nylon, polycarbonate, and polylactic acid (a bioplastic), and multilayer combinations of different plastics	bottles, plastic lumber applications, headlight lenses, and safety shields/glasses

Reference: Wikipedia - [Resin identification code](#)

#### Disclaimer

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