






# PLASTICS identification code

The Plastics Identification Code\* identifies the type of plastic resin a product is made from. The code makes it easier for re-processors to identify and separate used plastics for a range of new applications. Single and mixed materials can be recycled into new products, and used plastics can also be converted into liquid fuel or other energy.

TYPE OF PLASTIC	PROPERTIES INCL. SPECIFIC GRAVITY	APPLICATIONS: VIRGIN GRADES	APPLICATIONS: RECYCLED GRADES MAJOR USE / MINOR USE
 <b>PETE</b> Polyethylene Terephthalate <b>PET</b>	Clear, tough, solvent resistant. Used for rigid sheets and fibres. <b>Softens:</b> 85°C <b>SG =</b> 1.38	Carbonated soft drink bottles, fruit juice bottles, pillow and sleeping bag filling, textile fibres	<b>BEVERAGE BOTTLES</b> Clothing, geo-textiles, bottles for detergents etc., laminated sheets, clear packaging film, carpet fibres
 <b>HDPE</b> High Density Polyethylene <b>HDPE</b>	Hard to semi-flexible, waxy surface, opaque. <b>Softens:</b> 135° C <b>SG =</b> 0.96	Crinkly shopping bags, freezer bags, milk bottles, bleach bottles, buckets, rigid agricultural pipe, milk crates	<b>FILM, BLOW MOULDED CONTAINERS</b> Agricultural pipes, pallets, bins for compost and kerbside collections, extruded sheet, crates, garden edging, household bags, oil containers, pallets
 <b>PVC</b> Unplasticised Polyvinyl Chloride <b>UPVC</b> Plasticised Polyvinyl Chloride <b>UPVC</b>	Hard rigid, can be clear, can be solvent welded <b>Softens:</b> 70-100° C <b>SG =</b> 1.40 Flexible, clear, elastic, can be solvent welded <b>Softens:</b> 70 - 100°C <b>SG =</b> 1.35	Electrical conduit, plumbing pipes and fittings, blister packs, clear cordial and fruit juice bottles Garden hose, shoe soles, cable sheathing, blood bags and tubing, watch straps, rain wear	<b>PIPE, FLOORING</b> Pipe and hose fittings, garden hose, electrical conduit, shoes, road cone bases, drainage pipes, electrical conduit and ducting, detergent bottles
 <b>LDPE</b> Low Density Polyethylene <b>LDPE</b> Linear <b>LDPE</b>	Soft, flexible, waxy surface translucent, withstands solvents <b>Softens:</b> 115° C <b>SG =</b> 0.92	Garbage bags, squeeze bottles, black irrigation tube, silage and mulch films, garbage bins	<b>FILMS: BUILDERS, CONCRETE LINING AND BAGS.</b> Agricultural pipe, nursery & other films
 <b>PP</b> Polypropylene <b>PP</b>	Hard, flexible, translucent (can be transparent). Wide property range for many applications, good chemical resistance. <b>Softens:</b> 165° C <b>SG =</b> 0.90	Film, carpet fibre, appliances, automotive, toys, housewares, crates, palls, bottles, caps and closures, furniture, rigid packaging	<b>CRATES, BOXES, PLANT POTS</b> Compost bins, garden edging, irrigation fittings, building panels
 <b>PS</b> Polystyrene <b>PS</b> Expanded Polystyrene <b>EPS</b>	Clear, glassy, rigid, brittle, opaque semitough, melts at 95° C. Affected by fats and solvents <b>Softens:</b> 90° C <b>SG =</b> 1.06 Foamed, light weight, energy absorbing, heat insulating <b>Softens:</b> 90° C <b>SG =</b> 0.90 – 0.93	Refrigerator bins & crispers, stationery accessories, coat hangers, medical disposables. Meat & poultry trays, yoghurt & dairy containers, vending cups Drinking cups, meat trays, clamshells, panel insulation, produce boxes, protective packaging for fragile items	<b>INDUSTRIAL PACKAGING, COAT HANGERS, CONCRETE REINFORCING CHAIRS</b> Moulded products, coat hangers, office accessories, spools, rulers, video cases and printer cartridges <b>SYNTHETIC TIMBER</b> Picture frame mouldings, under slab void pods for buildings
 <b>OTHER</b> OTHER : Includes all other resins and multi materials (laminates) acrylonitrile butadiene styrene (ABS), acrylic, nylon, polyurethane (PU), polycarbonates (PC) and phenolics		Automotive, aircraft and boating, furniture, electrical and medical parts	<b>AGRICULTURAL PIPING</b> Furniture fittings, wheels and castors. Fence posts, pallets, outdoor furniture and marine structures.

\* Information reproduced from Plastics Identification Code Brochure provided by: **CLAW Environmental, REPSA, PACIA**