

American Plastics Council® Plastic Packaging Resins				
Codes	Descriptions	Properties	Product Applications	Products With Recycled Content
PETE	Polyethylene Terephthalate (PET, PETE). PET is clear, tough, and has good gas and moisture barrier properties. Commonly used in soft drink bottles and many injection molded consumer product containers. Other applications include strapping and both food and non-food containers. Cleaned, recycled PET flakes and pellets are in great demand for spinning fiber for carpet yarns, producing fiberfill and geo- textiles. Nickname: Polyester	Clarity, strength, toughness, barrier to gas and moisture, resistance to heat	Plastic soft drink, water, sports drink, beer, mouthwash, catsup and salad dressing bottles. Peanut butter, pickle, jelly and jam jars. Ovenable film and ovenable prepared food trays	Fiber, tote bags, clothing, film and sheet, food and beverage containers, carpet, strapping, fleece wear, luggage and bottles.

	High Density	Stiffness, strength,	Milk, water, juice, cosmetic,	Liquid laundry detergent,
	Polyethylene (HDPE).	toughness, resistance	shampoo, dish and laundry	shampoo, conditioner and motor
	HDPE is used to make	to chemicals and	detergent bottles; yogurt and	oil bottles; pipe, buckets, crates,
_	bottles for milk, juice,	moisture, permeability	margarine tubs; cereal box	flower pots, garden edging, film
	water and laundry	to gas, ease of	liners; grocery, trash and	and sheet, recycling bins,
<b>72</b> \	products. Unpigmented	processing, and ease of	retail bags.	benches, dog houses, plastic
رب	bottles are translucent.	forming.	retuin ougs.	lumber, floor tiles, picnic tables
HDPE	have good barrier	Torring.		fencing.
HOPE	properties and stiffness,			renemg.
	and are well suited to			
	packaging products with a			
	short shelf life such as			
	milk. Because HDPE has			
	good chemical resistance, it			
	is used for packaging many			
	household and industrial			
	chemicals such as			
	detergents and bleach.			
	Pigmented HDPE bottles			
	have better stress crack			
	resistance than			
	unpigmented HDPE			
	bottles.			
	Polyvinyl Chloride	Versatility, clarity,	Clear food and non-food	Packaging, loose-leaf binders,
	(PVC/Vinyl).	ease of blending,	packaging, medical tubing,	decking, paneling, gutters, mud
_	In addition to its stable	strength, toughness,	wire and cable insulation,	flaps, film and sheet, floor tiles
$\boldsymbol{\Delta}$	physical properties, PVC	resistance to grease, oil	film and sheet, construction	and mats, resilient flooring,
×37	has good chemical	and chemicals.	products such as pipes,	cassette trays, electrical boxes,
رت	resistance, weatherability,		fittings, siding, floor tiles,	cables, traffic cones, garden
•	flow characteristics and		carpet backing and window	hose, mobile home skirting.
V	stable electrical properties.		frames.	
	The diverse slate of vinyl			
	products can be broadly			
	divided into rigid and			
	flexible materials. Bottles			
	and packaging sheet are major rigid markets, but it			

	is also widely used in the construction market for pipes and fittings, siding, carpet backing and windows frames. Flexible vinyl is used in wire and cable insulation, film and sheet, floor coverings, synthetic leather products, blood bags, medical tubing and other applications.			
LDPE	Low Density Polyethylene (LDPE).  Used predominately in film applications due to its toughness, flexibility and relative transparency, making it popular for use in applications where heat sealing is necessary. LDPE is also used to manufacture some flexible lids and bottles and it is used in wire and cable applications.	Ease of processing, strength, toughness, flexibility, ease of sealing, barrier to moisture.	Dry cleaning, bread and frozen food bags, squeezable bottles, e.g. honey, mustard.	Shipping envelopes, garbage can liners, floor tile, furniture, film and sheet, compost bins, paneling, trash cans, landscape timber, lumber
253 PP	Polypropylene (PP). Polypropylene has good chemical resistance, is strong, and has a high melting point making it good for hot-fill liquids. PP is found in flexible and rigid packaging to fibers and large molded parts for automotive and consumer products.	Strength, toughness, resistance to heat, chemicals, grease and oil, versatile, barrier to moisture.	Catsup bottles, yogurt containers and margarine tubs, medicine bottles	Automobile battery cases, signal lights, battery cables, brooms, brushes, ice scrapers, oil funnels, bicycle racks, rakes, bins, pallets, sheeting, trays.

€ PS	Polystyrene (PS). Polystyrene is a versatile plastic that can be rigid or foamed. General purpose polystyrene is clear, hard and brittle. It has a relatively low melting point. Typical applications include protective packaging, containers, lids, cups, bottles and trays.	Versatility, insulation, clarity, easily formed	Compact disc jackets, food service applications, grocery store meat trays, egg cartons, aspirin bottles, cups, plates, cutlery.	Thermometers, light switch plates, thermal insulation, egg cartons, vents, desk trays, rulers, license plate frames, foam packing, foam plates, cups, utensils
OTHER	Other. Use of this code indicates that the package in question is made with a resin other than the six listed above, or is made of more than one resin listed above, and used in a multilayer combination.	Dependent on resin or combination of resins.	Three and five gallon reusable water bottles, some citrus juice and catsup bottles.	Bottles, plastic lumber applications.

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