

PET



PET

polyethylene terephthalate

MATERIAL PROPERTIES

- Highly Transparent
- Shock resistant and consistency of form
- Limited impact strength
- High melting point 250 – 260° C

TYPICAL PRODUCTS & USES

- Drinking bottles (contains the pressure)
- Take away containers
- Wrapping for medical products

RECYCLING USES

- Clothes
- Bags
- Umbrellas
- ...



PE-HD

PE-HD

polyethylen high density

MATERIAL PROPERTIES

- Excellent moisture and chemical resistance
- Soft waxy surface
- Inexpensive to work with
- Opaque
- Melting point 125-135 ° C

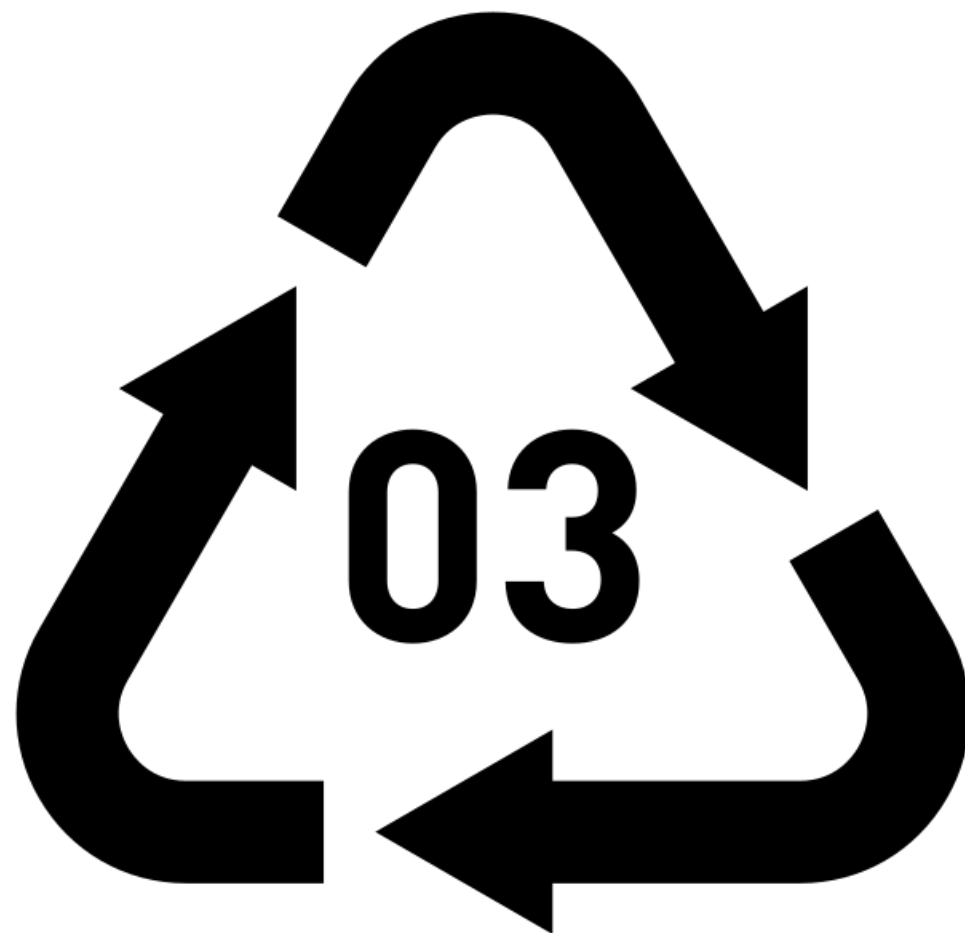
TYPICAL PRODUCTS & USES

- Flaschen und Behälter (die NICHT unter Druck stehen!)
- Foodverpackungen und Haushaltsgegenstände
- Tinkwasserleitungen
- ...

RECYCLING USES

- Transportgebinde und Container
- Dämm- und Unterlags-Material
- ...





PVC



PVC

polyvinyl chloride

MATERIAL PROPERTIES

- Highly weather resistant
- Long life
- Resistant against chemicals and acids
- Melts at 80 C (very low)

TYPICAL PRODUCTS & USES

- Window framing
- Tubes and pipes
- Childrens' toys and yoga mats (with phthalate)
- Cover for electric cables
- Records (yes, the Vinyl!)

RECYCLING USES

- Attention! This material is not useful for recycling. When heated hydrogen chloride is released – so don't think about recycling



PE-LD



PE-LD

polyethylen low density

MATERIAL PROPERTIES

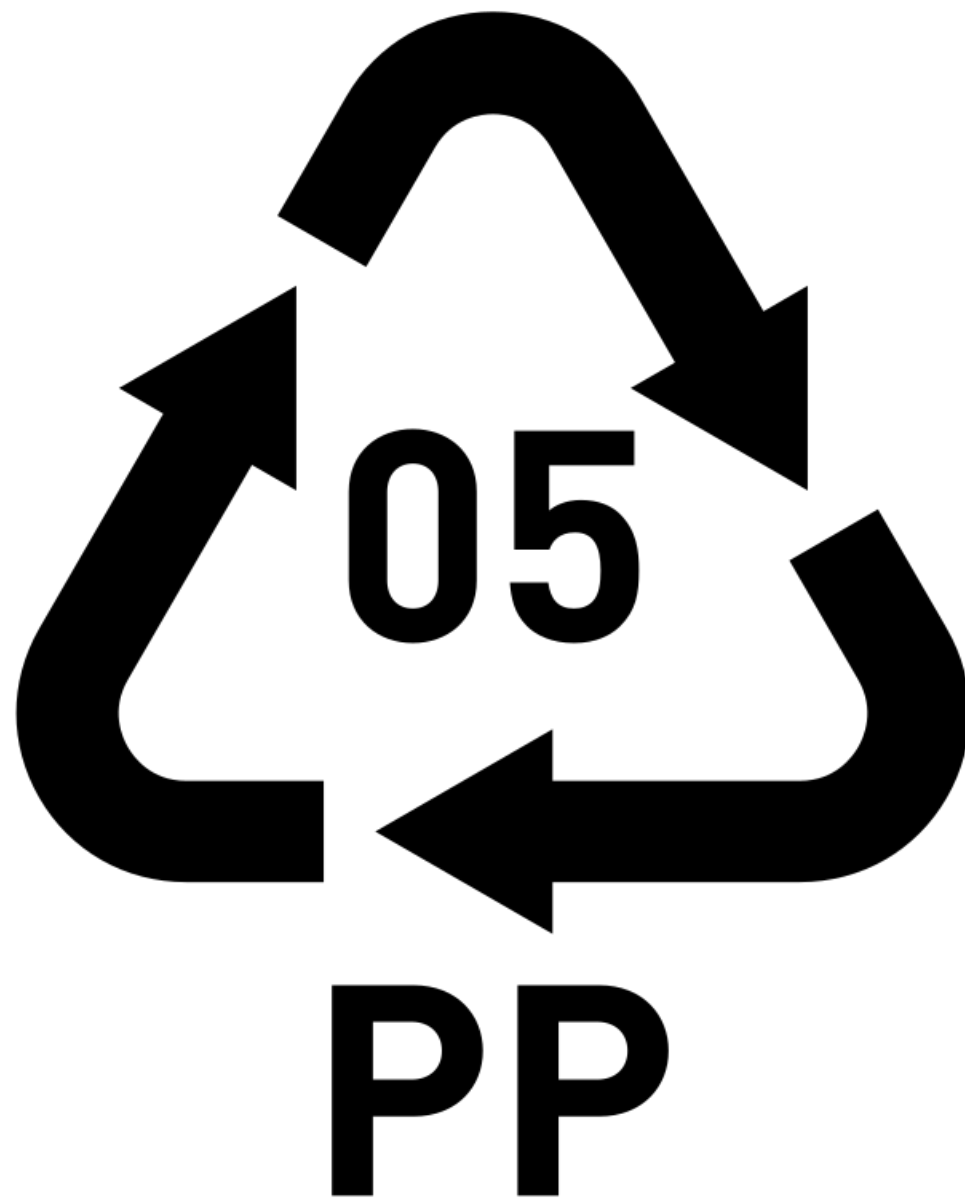
- High ductility & shock proof
- Resistance against chemicals
- Reduced sliding friction
- Cheap and easy to work with
- Transparent (part chrystalline)
- Melting point 125-135 C

TYPICAL PRODUCTS & USES

- Packaging (everything from IKEA has the 4 on it!)
- Bottles and containers also for medical use
- Plastic bags
- ...

RECYCLING USES

- Transport containers
- Insulating materials and underlay materials
- ...





PP

polypropylen

MATERIAL PROPERTIES

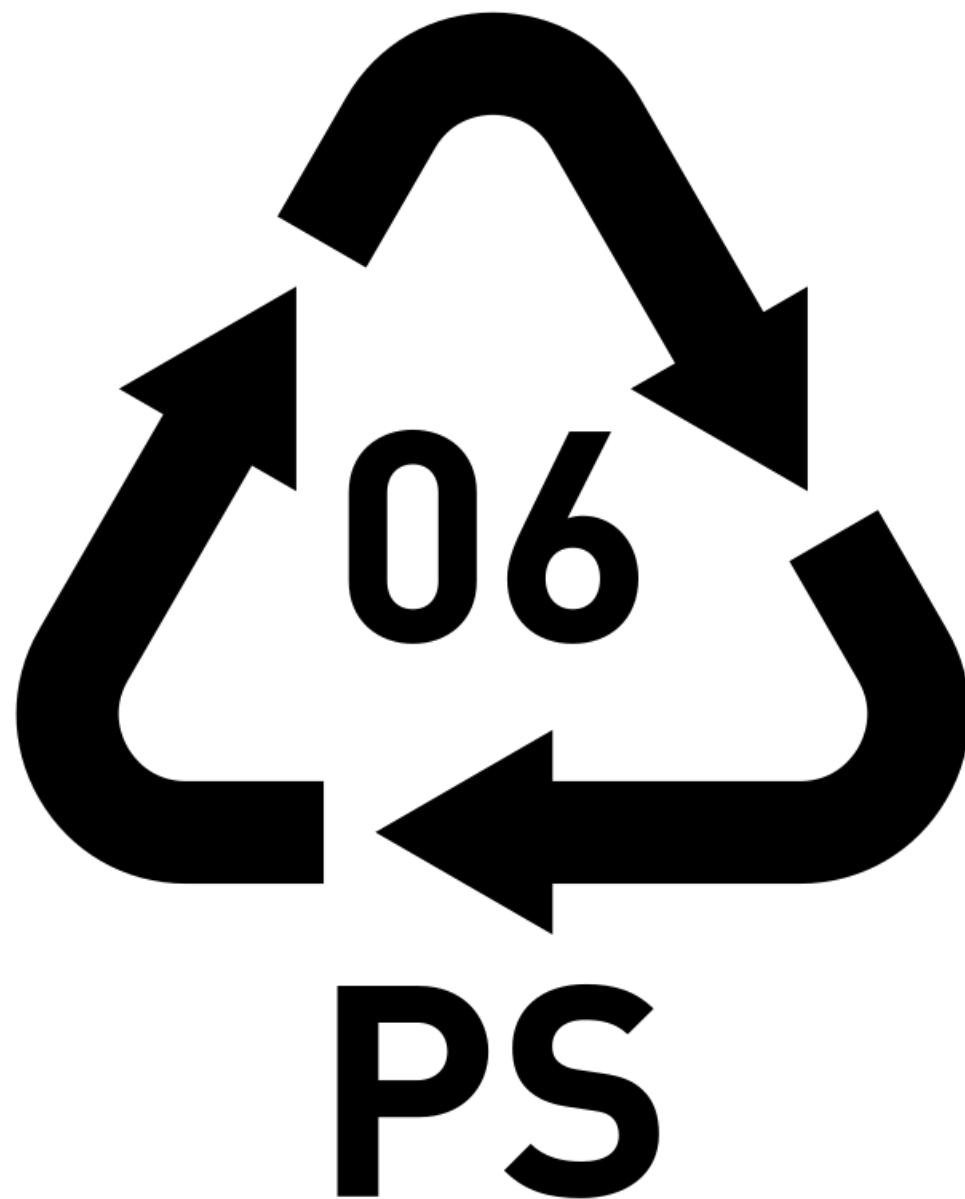
- High ductility & shock proof
- High resistance against chemicals
- Cheap and easy to work with
- Transparent and opaque
- Can be sterilized at 135 C
- Melts at 160-165 C

TYPICAL PRODUCTS & USES

- Food wrapping and household objects
- Microwave resistant containers
- Drinking-water pipes
- Medical products
- Bottle caps
- ...

RECYCLING USES

- Transport containers
- Insulating materials and underlay materials
- Re-Buttons
- Design objects – A bench in the Park
- ...





PS

polystyrol

MATERIAL PROPERTIES

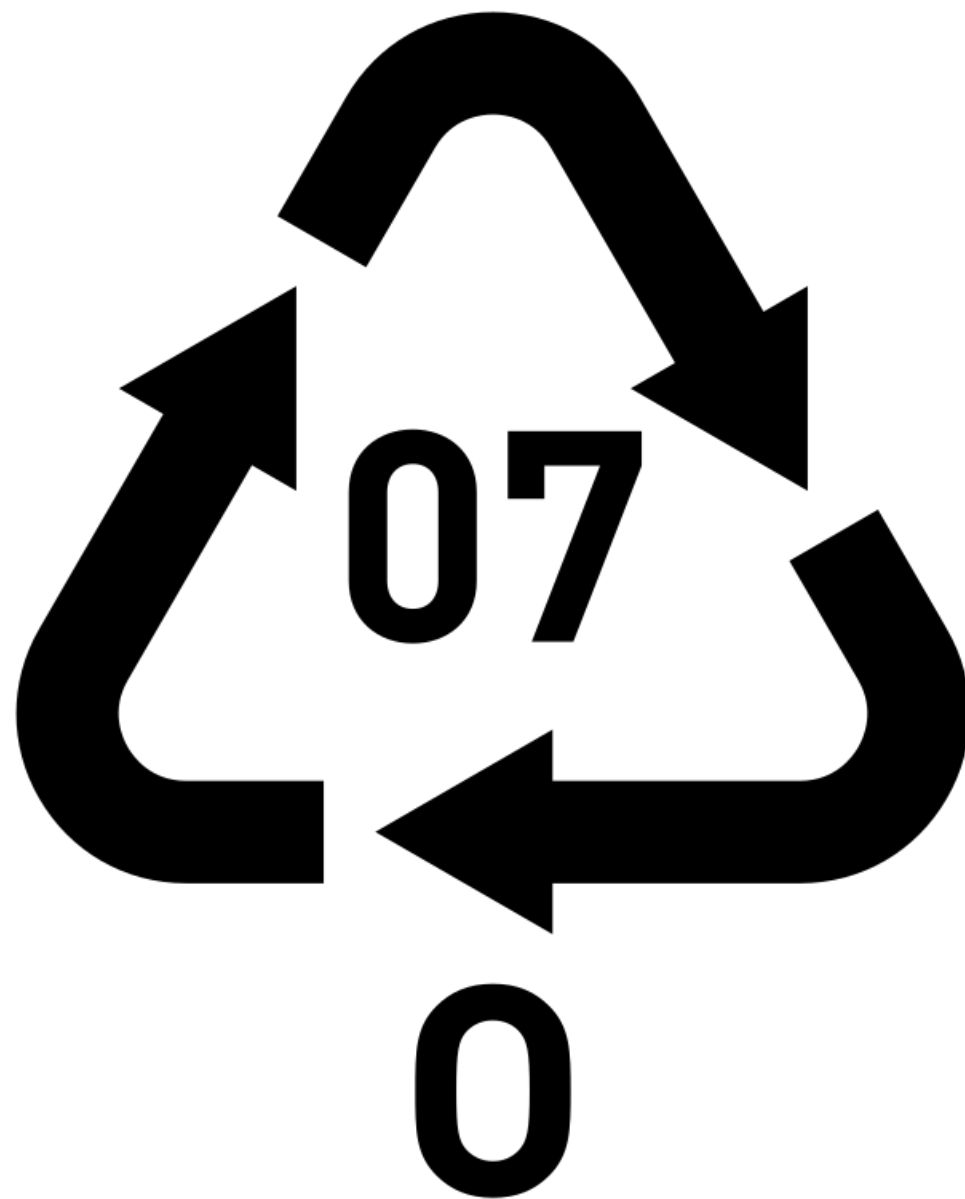
- Glas-clear and hard
- Brittle/Crumbling
- Sensitive to blows
- Reduced water
- Sensitive to UV Light
- Biologically degradable (worms..)
- Melting point 90-100 C

TYPICAL PRODUCTS & USES

- Product and food-wrapping
- Drinking cups – single use cutlery

RECYCLING USES

- Rarely used for recycling
- Rubble or plates





ABS, PMMA, PC, PA, SAN, PBT, PTFE ...

Other

- Highly specialized plastics
- Particular qualities with additives make recycling more or less impossible