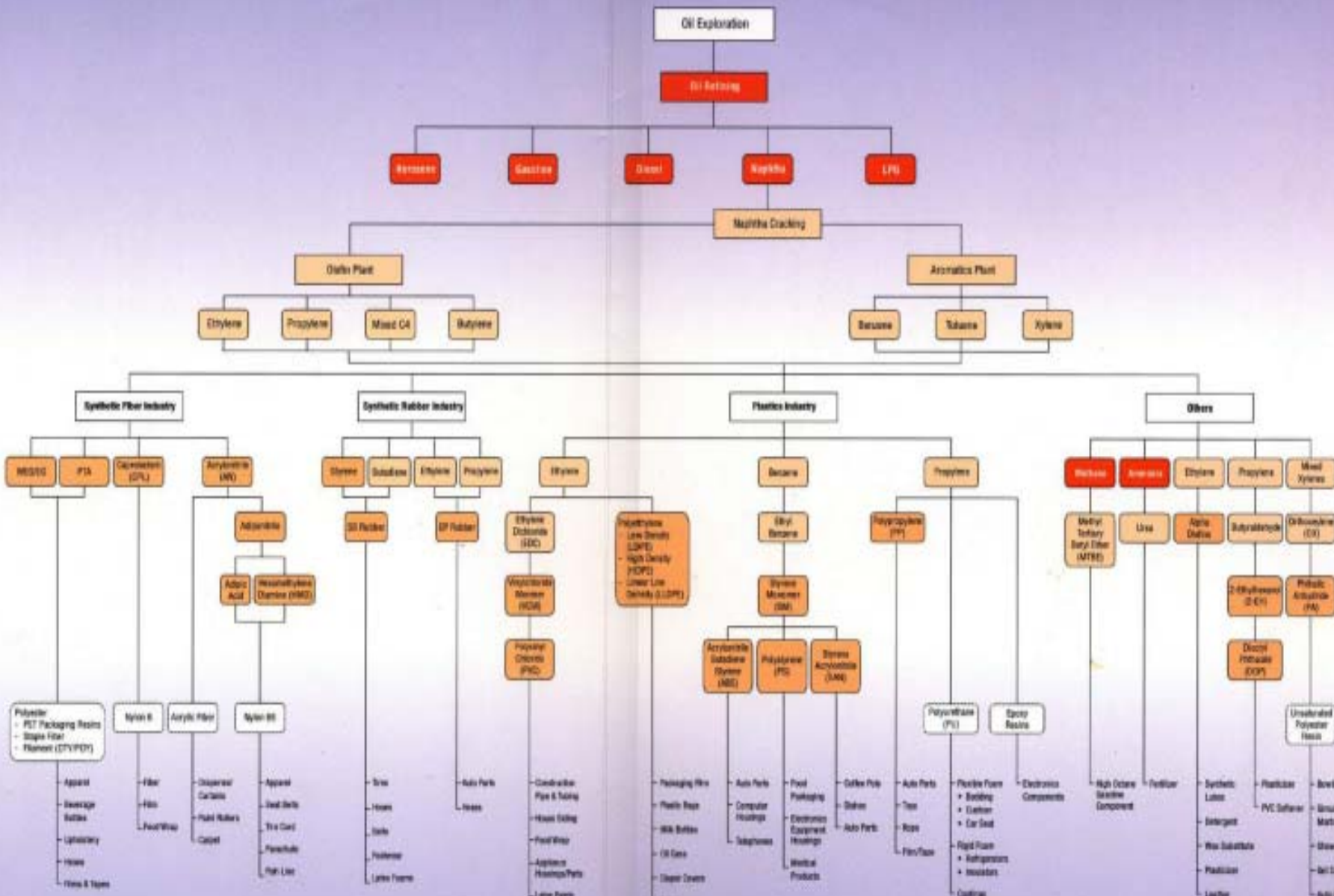


# Upstream / Downstream — The Chemicals Supply Chain



# โรงโอสเลพินส์

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# โรงโอสเลพินส์



# CLASSIFICATION OF PLASTICS

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## THERMOPLASTIC RESIN

POLYETHYLENE  
POLYPROPYLENE  
POLYAMIDE  
PVC  
POLYSTYRENE  
POLYCARBONATE

## THERMOSETTING RESIN

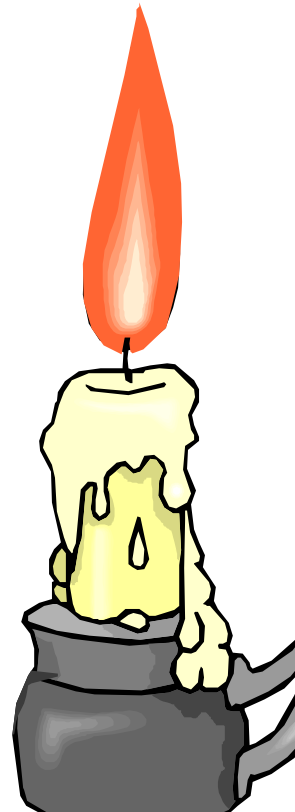
PHENOLICS  
UREA RESIN  
EPOXY RESIN

# THERMOPLASTICS

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A plastics that can be repeatedly softened by heating and hardened by cooling through a temperature range which is characteristic of the plastic and that in the softened state can be shaped by flow into article by molding or extrusion.

The sample of thermoplastic are :  
Polyethylene(PE), Polypropylene(PP),  
Polystyrene(PS), Polyvinylchloride(PVC)



# THERMOSETTING

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A plastic that, after having been cured by heat or by other means, is substantially infusible and insoluble.

The sample of thermoplastic are :

Melamine , Phenolic resin , Unsaturated Polyester resin. Epoxy resin.



# PLASTIC PROCESSING METHOD

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**-INJECTION MOLDING**

**-THERMOFORMING**

**-EXTRUSION MOLDING**

**-ROTOMOLDING**

**-BLOW MOLDING**

**-CASTING**

**-BLOW FILM**

**-COMPRESSION MOLDING**

# PLASTICS PROCESSING CONCEPT

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HEAT



Pellet  
Plastics



Molten  
Plastics



Shaping  
Process



Plastics  
Goods

HEAT REMOVAL



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Machine  
Parts

Extruder  
Parts

Die & Auxiliary  
Units

# Product Application



ภาชนะพลาสติกที่ต้องการความคงรูป  
ความแข็งแรง

ผลิตภัณฑ์พองน้ำ

# Product Application



วงกบหน้าต่าง



ข้อต่อพีวีซี



# Product Application



ขวดเพ็ท



เส้นใยโพลีเอสเตอร์

# Product Application



ชิ้นส่วนรถยนต์และเครื่องใช้ไฟฟ้า

# Product Application



ชิ้นส่วนรถยนต์ ป้ายโฆษณาและส่วนประกอบสีอะคริลิก

# Product Application



ภาชนะเมลามีน

# Product Application



**Monofilament**



**Pipe**



**Rotomolding**



**Film**



**Blow Molding**



**Injection Molding**

# Product Application



**IPP**



**BOPP**

**Film**



**CPP**



**Sheet**



**Injection Molding**



**Monofilament, Woven bags, Rope**

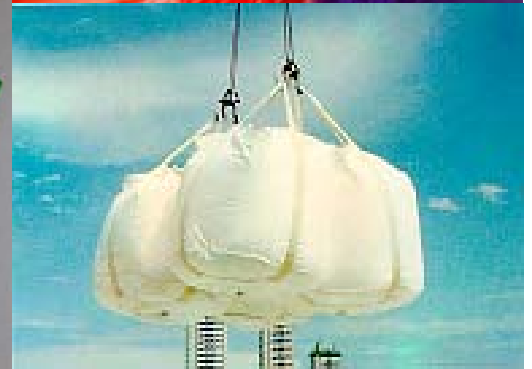
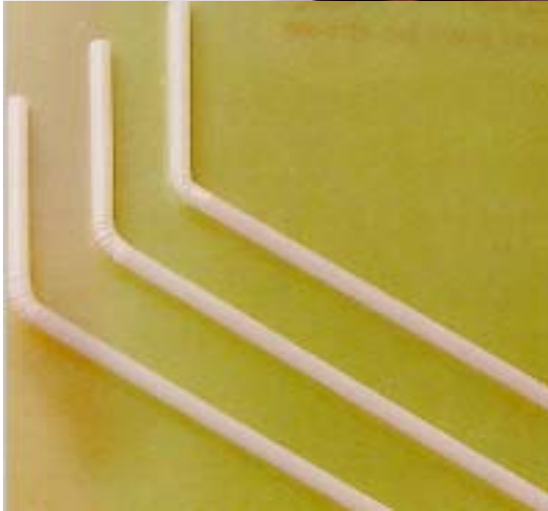
# Product Application



# Product Application



# Product Application



# Product Application



**Fishing net**



**Geo net**

# Product Application



**Sun shade**



**Onion bag**

# Product Application

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# Product Application

## PRESSURE PIPE



Portable water pipe

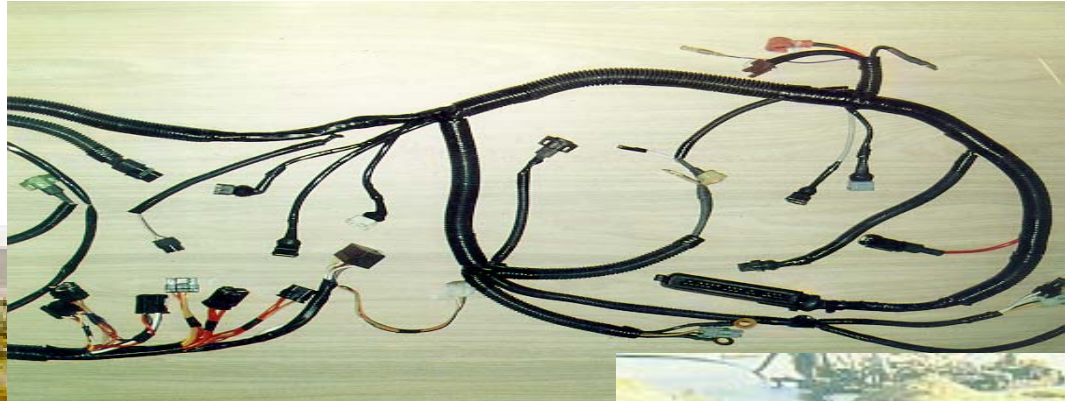


Fitting

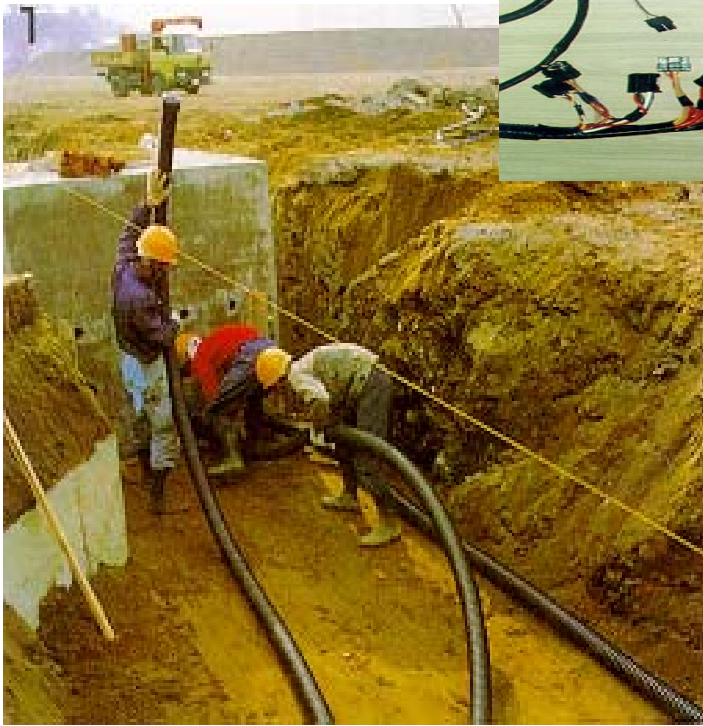


Agriculture pipe

# Product Application



**Cot tube**



**Subduct**



**Sewage**

# Product Application

Small containers used for chemical or low temperature



**Fishery  
containers**



**Chemical drums**



**Bins**

**FDA**

# Product Application

Large containers  
for high load use



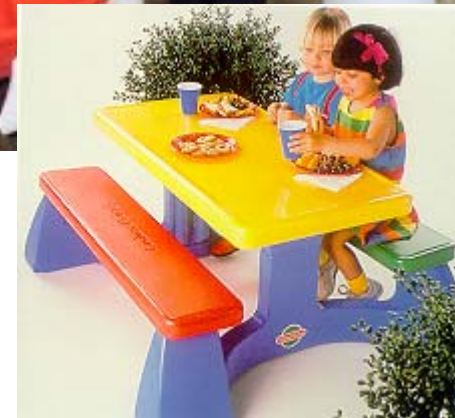
Septic Tank



Litter bin



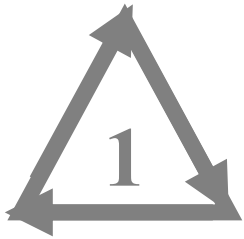
Boats



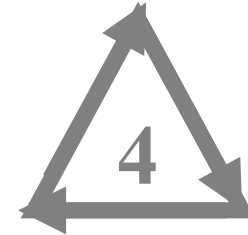
Toy FDA

# Recycle symbol

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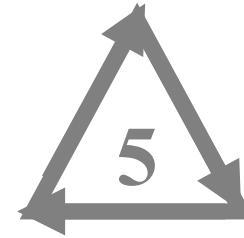
**PET**



**LDPE**



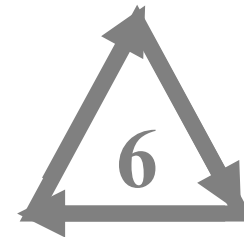
**HDPE**



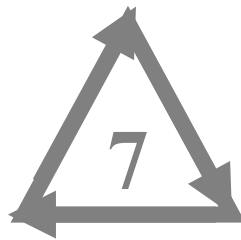
**PP**



**VINYL or PVC**



**PS**



**OTHERS**