|  |  |
| --- | --- |
| Where do plastics come from? There are two sources:* -----------------------------------------------------------------------------
* -----------------------------------------------------------------------------
 | Plastics are made by the process called ------------------------------------------------There are two “types” of plastics. ---------------------------------- or ------------------------------------------ |
|  **Thermosetting**  | **Thermoforming** |
| Plastics **------------------------------------------------------------------------------------**due to a chemical reaction that occurs when they are first manufactured.* Initially -------------------------
* Cannot be -------------------------------
* Extremely ------------------------------------
* -------------------- be recycled
 | Plastics **------------------------------------** and therefore **-----------------------------------*** ------------------------- when heated
* Can be ----------------------------
* More commonly used ---------------------

* **---------------------** be recycled
 |
| Uses of plastics- Thermo setting |
| Names  | Uses  | Pictures  |
| **Urea****Formaldehyde (UF** |  | electric socket2 |
| **Melamine formaldehyde (MF)** |  | http://www.beka-cookware.com/assets/products/images/20205928_Gourmet_Fry_pan_handle.jpg |
| **(ER) Epoxy resin**  |  |  |
| **PR Polyester resin** |  |  |
| Properties of thermo setting plastics  |

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| Uses of plastics- Thermoforming  |
| Names  | Uses  | Pictures  |
| **Polythene**  |  | Image result for polythene plastic bag |
| **High impact Polystyrene (HIPS)**  |  | Image result for hips plastic cutlery |
| **Polypropylene** |  | ECOPOLYCHAIR.jpg |
| **PVC** **(** **polyvinyl chloride)** |  | Image result for pvc window frame |
| Properties of thermoforming plastics  |
| Properties and their meanings  |
| Hardness  | Is the ability of a --- | Some are harder than others- -------------------------------. |
| Elasticity  | Ability for a material to | Good elasticity- -------------------------------------------- |
| Conductivity  | Conductivity- ability for | They have ---------------------------------------------- –so are electrical insulators |
| Toughness  | Is the ability of a material to | Some are ------------------------------------------------ |
| Strength  | Is the ability of a material to withstand a | Some are, some are not- -------------------- material can -------------------------this.  |