

Polimerlar. Plastmassalar. Tolalar.

Maqsad:

- Plastmassalar va tolalar qanday moddalar ekanligini va ularning polimerlardan farqini bilish;
- Plastmassalar va tolalarni siiflanishini o'rganish;
- Plastmassalarni olinish usullari va qo'llanilish yo'nalinishini o'rganish.

Kelib chiqishiga ko'ra polimerlarni sinflanishi

Tabiiy

- ✦Kraxmal
- ✦Selluyloza
- ✦Oqsil
- ✦Sun'iy kauchuk

Sun'iy

- ✦Viskoza
- ✦Selluloid
- ✦Asetat tolasi

Sintetik

- ✦Polietilen
- ✦Fenol-formaldegid polimerlari
- ✦Sintetik tolalar
- ✦Sintetik kauchuk

Makromolekulani shakliga ko'ra polimerlarni sinflanishi

chiziqli

- ✦ Polietilen
- ✦ Polipropilen
- ✦ Sintetik tola

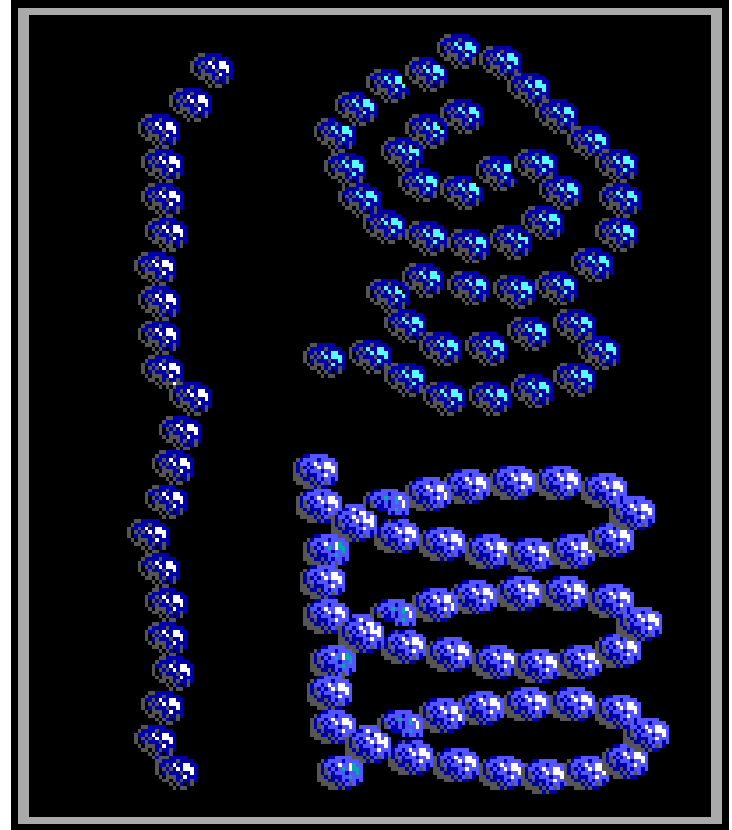
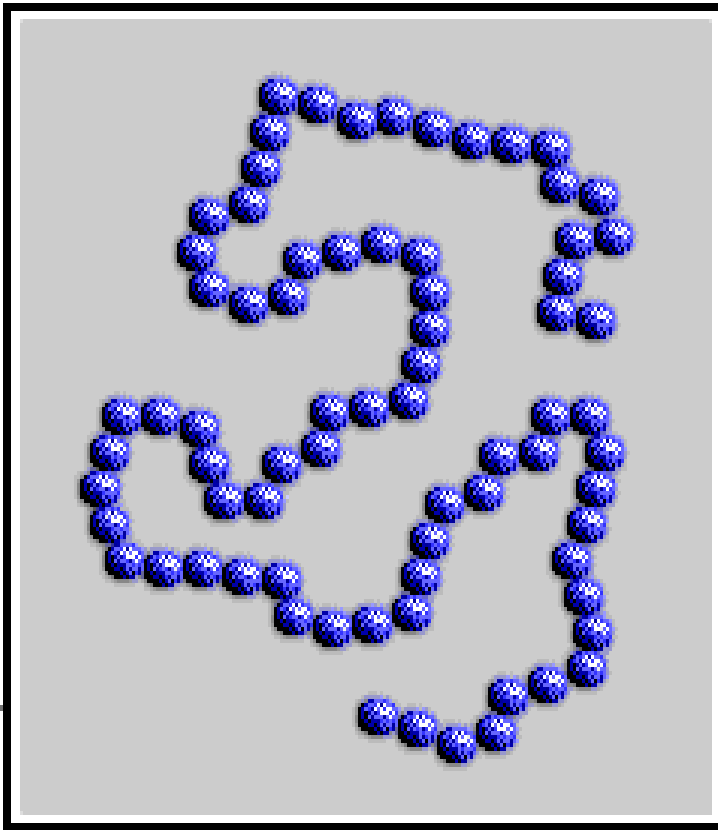
tarmoqlangan

- ✦ Kraxmal
- ✦ Sintetik kauchuk

fazoviy

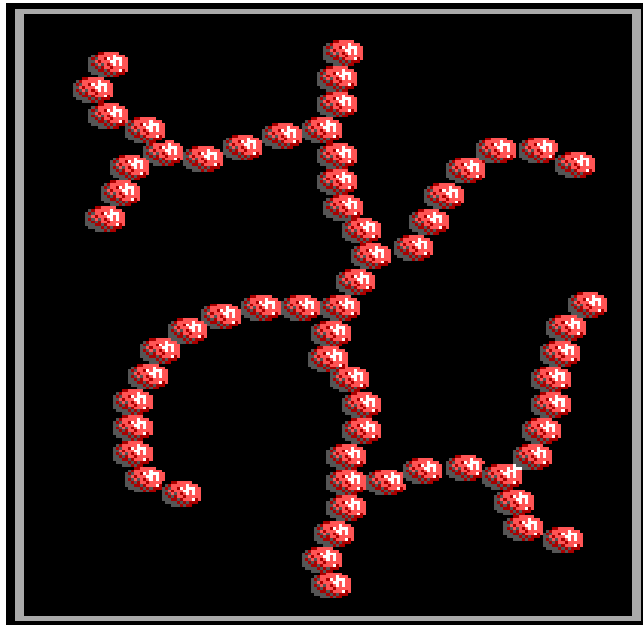
- ✦ Fenol-formaldegid polimerlari
- ✦ Rezina

Molikula shakli

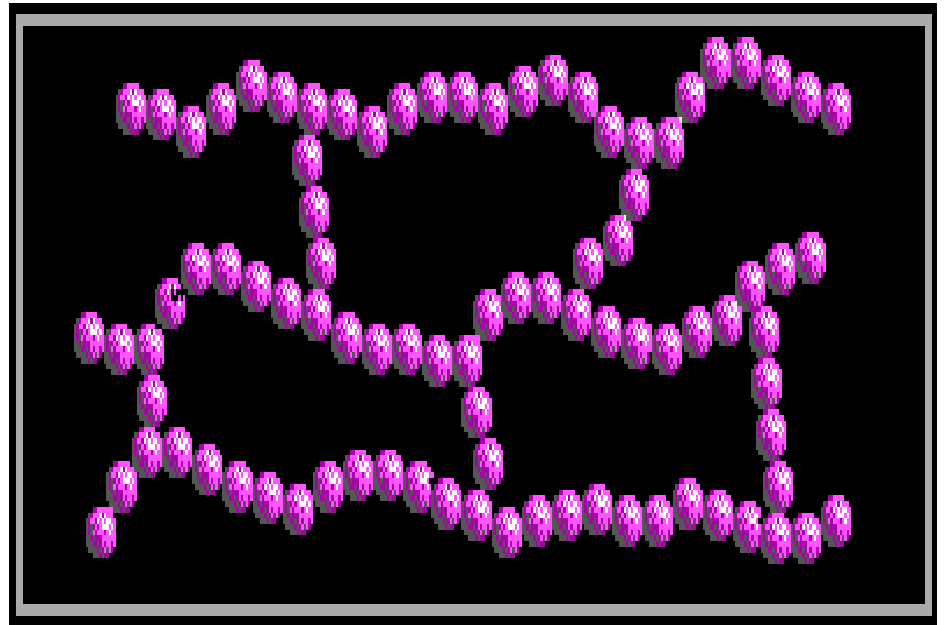


Chiziqli shakl

Molikula shakli



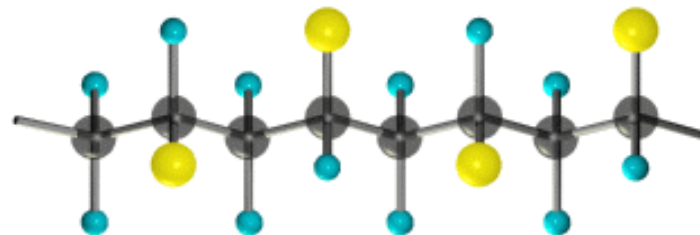
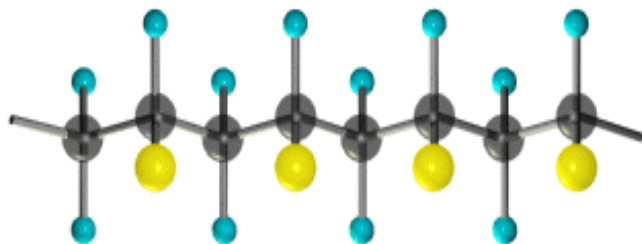
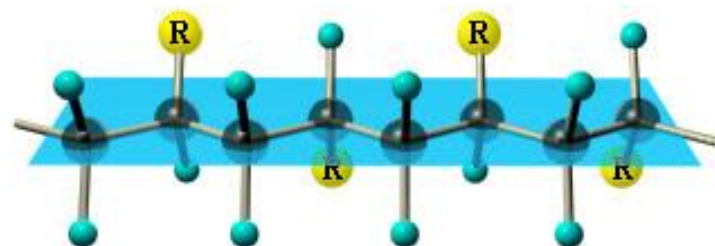
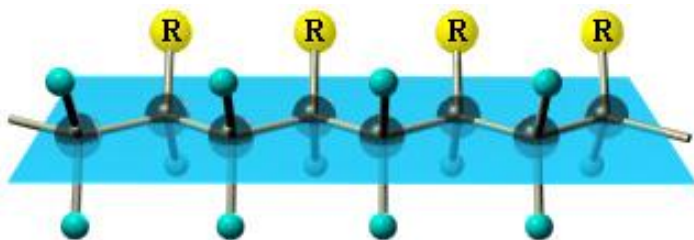
Tarmoqlangan shakl



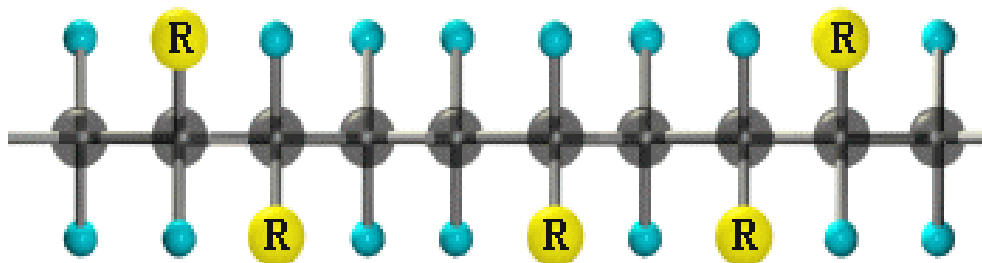
Fazoviy shakl

Sintetik kauchuklarni fazoviy konfiguratsiyasi

Stereoregulyar tuzilish



No Stereoregulyar tuzilish



Qizdirish bo'yicha polimerlarni sinflanishi

termoplastik polimerlar

- ✦ Polietilen
- ✦ Polipropilen
- ✦ Polivinilxlorid
- ✦ Kapron

termoreaktiv polimerlar

- ✦ Fenol-formaldegid smolalar
- ✦ Poliefir smolalar
- ✦ Karbomid smolalar

Plastmassalar xossalari va ularning shakllanish usullari

Plastmassalar xossalari:

- ◆ Yengil
- ◆ Izolyatorlar
- ◆ Korroziyaga chidamli
- ◆ Barqaror
- ◆ Arzon
- ◆ Qayta ishlash yengil

Plastmassalarni shakllanish usullari:

- ◆ Kattalashtirish
- ◆ Kichiraytirish
- ◆ Shakllash

Filerlar orqali o'tkazish

Plastmassalarni qo'llanilishi

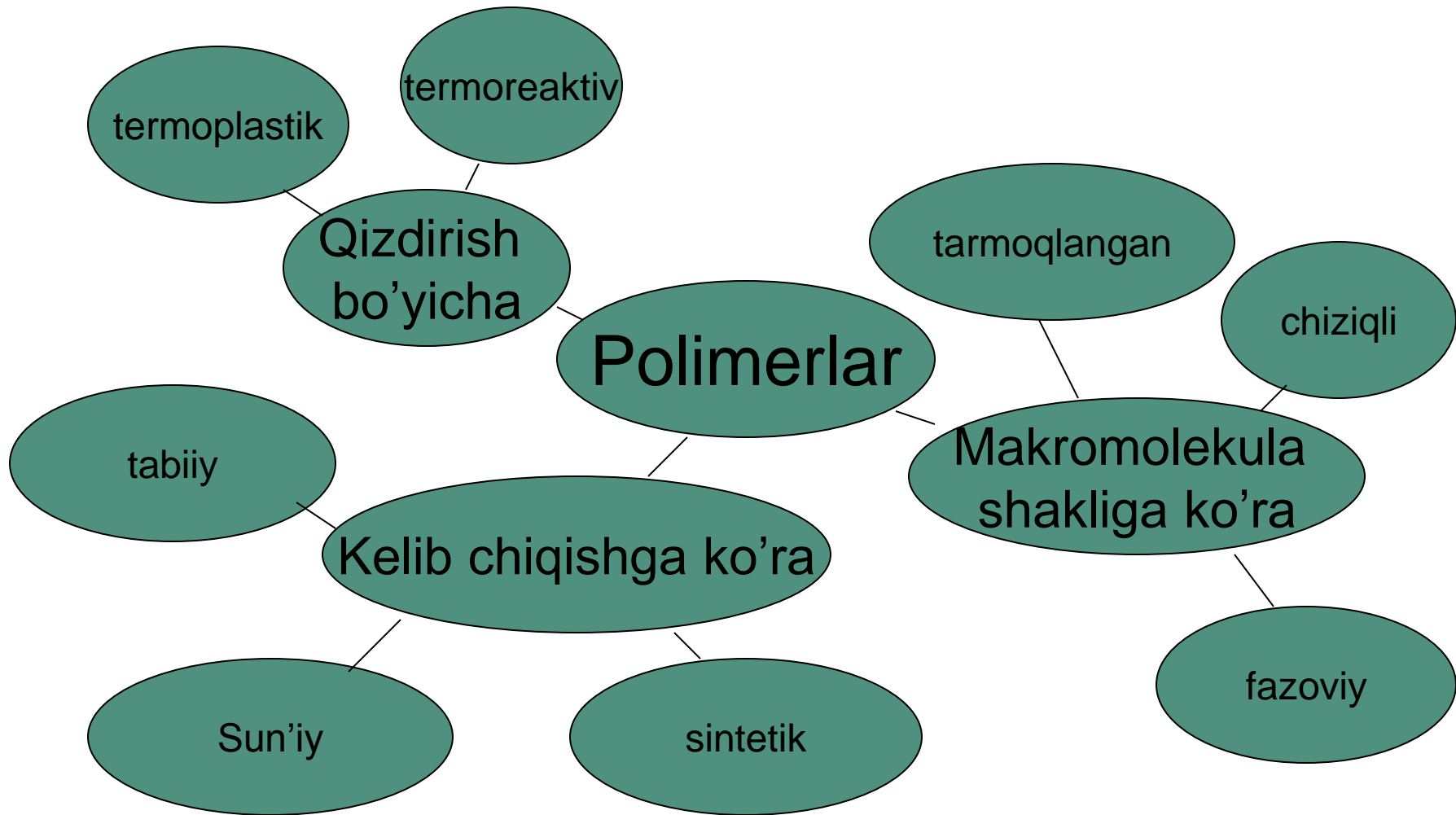


Ekologik muammolar

Plastmassalar ishlatilashi natijasida qanday ekologik muammolarga dush kelish mumkin?



Klaster



Toifalash jadvali

Qizdirish bo'yicha	Kelib chiqishga ko'ra	Makromolekula shakliga ko'ra

B/B/B jadvali

bilaman	Bilishni xoxlayman	Bilib oldim
<p>Sinflanishini</p> <ol style="list-style-type: none">1. Qizdirish bo'yicha2. Kelib chiqishga ko'ra3. Makromolekula shakliga ko'ra		