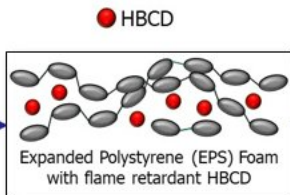
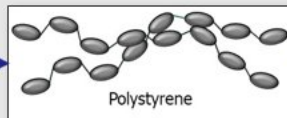


**Sorting**



**Physical Recycling**



**Extrusion**

**Solvent-based  
Purification**

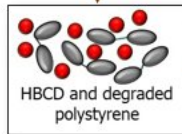
- Separation of **HBCD**
- Separation of polymer degradation products allows **unlimited cycles**.

**Physical & chemical recycling is combined to close two loops for one waste stream:**

- **Polystyrene insulation foam**
- **Brominated flame-retardants**



**Feedstock Recovery**



**Bromine Recovery**



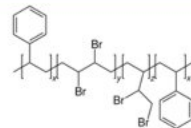
*with HBCD destruction*



Bromine

**Chemical  
Recycling**

**of the  
Flame Retardant**



**PolyFR** - butadiene styrene  
brominated copolymer