























| Tab | ole 4-2 Con | nparison o | of polymer | with diff | erent CED |
|-----|---|--------------------------------|-----------------------|-----------------|----------------------|
| | CED | polarity | interaction | flexibility | usage |
| - | CED < 300 | Non-polar | Weak interaction | Soft chains | Rubber materials |
| | CED > 400 | Polar or with H- bonding | Strong interaction | Rigid chains | Fiber materials |
| | 300 <ced 400<="" <="" td=""><td>middle</td><td>middle</td><td>middle</td><td>Plastic materials</td></ced> | middle | middle | middle | Plastic materials |
| | Interaction will determine the strength, thermal stability and aggregation structure, and further determine the properties and possible usage. *PE is a easily crystallized polymer and is used as plastics | | | | |
| | Wentao Hao, Hefel University of Technology | | | | 1: |











































































































































































