Particle Reinforced wyposite Matrix Materials polymers Metal ceranics Carbon Al Ji, cu Silicon Coraphile >2000 Thermoselting pleustius Ccross linked (soft of f do not ne shappedy ne shape) polypropylene polyusher oponies PUC polyamide Nylon other nesins poly wa there poly ether ether ketone polyphenylene Sulfide polysulpone

thermuplastic

- · hinger toughness
- · high volume
- . low cost proceering
- · Temperarture range > 225°C

proporties of fibrous composite

- 2. orientation of fibre wire to loading direction
- 3. Shape of the fibre
- 4. Distribution of the fibre
- 5- propresties of fibre
 - 6. proprenties of the matrix metocicil
- 7. proportion of fibre and metrix

Beinforce meterials

Glass fibre

courbon fibre

Organic fibre (polyamindes)

ceramic fibre (B)

Sillican conside (Sic)

Kelver Polyemide MMC CMC