



Industry challenges

These materials can be found in different colours and with different additives and different fibres to change their properties such as Flame retardant, Anti-static additive, UV- stabilised.

Homopolymer polypropylene has a better tensile strength and a higher temperature resistance than the HDPE but lower impact strength. Copolymer has a higher impact strength than the homopolymer but it has a small reduction in other properties. It is used generally for applications, which have colder conditions.

Applications

Industrial fabrication for large scale components.

Specifications

- Specific Gravity - 0.91
- Water Absorption - 0.01
- Max Service Temp - 100
- Low Temp limit - 5
- Tensile strength at yield - 57 Elongation at yield %14
- Elastic modulus - 1450
- Linear coefficient of thermal expansion DIN53752 - $10^{-4} \times K - 1.5$
- Heat deflection temperature - 95