

Material

Properties

ABS

Acrylonitrile
Butadiene Styrene

Stable over a wide range of temperatures, especially good in cold environments, high impact strength and ductility, good chemical resistance and rigidity.
Maximum temperature +80°C.

Corzan PVC-C

Post-chlorinated
Polyvinyl Chloride

Excellent chemical resistance, good mechanical strength and rigidity, high heat resistance, excellent flammability properties (self-extinguishing), low thermal conductivity and good abrasion resistance.
Maximum temperature +100°C.

PC

Polycarbonate

Excellent combination of toughness, transparency, heat and flame resistance and dimensional stability. Good electrical insulating properties and wide operating temperature range.
Maximum temperature +135°C.

PEEK

Polyetheretherketone

Very high operating temperatures, high rigidity and hardness, strength and thermostability. Very good chemical resistance, good dielectric characteristics, self-extinguishing and resistant to radiation. Maximum temperature +260°C.

PEI

Polyetherimide

High strength, dimensional stability and creep resistance. Excellent chemical resistance, good resistance to hydrolysis and radiation, self-extinguishing. Maximum temperature +170°C.

PES

Polyethersulfone

High strength, rigidity and hardness over a wide temperature range, withstanding prolonged exposure to elevated temperatures. Good electrical properties and chemical resistance.
Maximum temperature +200°C.

Polyethylene

Tough, excellent chemical resistance and electrical properties, low coefficient of friction, lightweight, very low moisture absorption, excellent flexibility and good strength in cold environments.

Polypropylene

Has excellent chemical resistance, high heat resistance and good mechanical strength. Lightweight, good insulating properties, excellent dielectric strength but poor UV resistance and low impact strength at freezing temperatures. Maximum temperature +100°C.

PS

Rigid, hard and stable, with extremely good surface finish. Generally low temperature range compared to other materials, UV resistance low, good chemical resistance.
Maximum temperature +70°C.

PSU

Poly sulfone

Good heat resistance, very high stability, self-extinguishing, good impact strength. Very good electrical properties, resistance to hydrolysis and high radiation proofness (permeable for microwaves). Poor weathering resistance. Maximum temperature +150°C.



PVC-U

Unplasticised
Polyvinyl Chloride

Excellent chemical resistance and dielectric properties, good tensile, flexural and mechanical strength, low moisture absorption, excellent dimensional stability and good flammability characteristics.
Maximum temperature +60°C.

PVDF

Polyvinylidene
Fluoride

Outstanding mechanical, physical and chemical properties, very wide operating temperature range, high impact strength and thermal stability, excellent abrasion resistance, self-extinguishing.
Maximum temperature +140°C.