



PTFE (Teflon®) Sheets, Rod and Tube

Virgin PTFE (Teflon®) is a white, waxy feeling industrial plastic and has almost universal chemical resistance. It has useful electrical and mechanical properties. PTFE can be moulded into solid rods, tubes and sheets for machining into finished components.

Teflon® has excellent non stick properties, it has a surface to which no substance will adhere. It also has excellent UV resistance. As well as having the lowest coefficient of friction of any solid (0.05-0.08), PTFE has a very high upper temperature limit of 260°C.

PTFE in its virgin form can be easily deformed by high loads and compressive forces. To minimise this additives such as glass (usually creamy colour), Bronze (usually brown colour), Carbon (black colour) are added prior to moulding.

PTFE can also be chemically etched on one surface to allow bonding to steel surfaces. Allplastics can supply PTFE in Virgin, filled grade in Sheet, Rod and Tube form, as well as a full machining service.

Key features and benefits

- Superb chemical resistance
- High temperature use 260°C
- Lowest co-efficient of friction
- Physiologically inert
- Excellent electrical properties
- Can deform (flow) under high loads

Applications

- B/U Washers
- Chevron Vee Packing
- O-Rings
- Envelope gaskets
- Chemical Liners
- Ball Valve Seats
- Insulators
- Tooling Pins
- Glide Rings