

## FAQs

### 1. Describe a famous application of CGI sheet

- A **Nissen hut** is a **prefabricated steel structure**, made from a half-cylindrical skin of **corrugated steel**. Originally designed during the First World War by the engineer and inventor Major Peter Norman Nissen, **it was used extensively during the Second World War**.
- Two factors influenced the design of the hut. First, the building had to be **economical in its use of materials**, especially considering wartime shortages of building material. Second, the **building had to be portable**.

### 2. Write briefly about applications of CGI sheets

- Agriculture – Grain silos, sprayers, pans and feeding troughs etc.
- Automobile sector – Car, bus and truck bodies, undercarriage work, air and oil filters, fuel and oil tanks, exhaust pipes etc.
- Construction – **Roofing, side walls, partitions, panels, valley gutters, louvers, false ceilings, partition walls and ducks, rolling shutters**, highway bumpers, slotted angles and paint coated products etc.
- House hold things – Trunks, ice boxes, tubs, buckets, storage bins, water tanks, washing machines, house hold machines, pipes, pipe fittings and bath room doors etc.

### 3. Write a few notes on properties of PTFE

- It is **weather and UV resistant**
- It has excellent optical properties
- It is a **non stick surface**; very few solid substances can permanently stick to a Teflon coating, where as tacky materials may show some adhesion, almost all substances release easily from the coating.
- It has **outstanding performance at extreme temperatures**
- It has **low coefficient of friction**. Thus there is no difficulty in sliding one surface against another.
- Teflon finishes are both **hydrophobic and oleo phobic**, which makes cleanup easier and more thorough.

#### 4. Write a few notes on applications of PTFE

- PTFE is an incredibly **versatile material used across many industries**, thanks to its stable and durable characteristics and affordability
- PTFE is one of the **most affordable** fluoropolymers on the market, and has one of the best performance to price ratios. It is often used in construction **projects for structures such as car parks, supermarkets and bridges**, since it enables affordable **structure expansion without worrying about strain being put on rigid elements**.
- Plus, its **resistance against weather damage and general wear and tear** make it an extremely long-lasting material.
- PTFE is perhaps best known for its use as a non-stick coating for cookware

#### 5. Describe polycarbonate roofing

- Polycarbonate roofing is a **lightweight thermoplastic material that is known for its ability to withstand extreme hot and cold temperatures**. While this material is not used to cover an entire home, polycarbonate can be used to cover patios, decks and conservatories.
- These panels are available in a number of shades including white and a smoky gray. They are often used in places **where natural sunlight still needs to be able to get through**. These panels usually have a film applied that reflects harmful UV light from being able to enter into the structure.
- In addition to being able to withstand extreme temperatures, they are extremely durable. **They can withstand strong winds, heavy rainstorms and hail.** .