

Polycarbonate (PC) Enclosures

General Purpose, Rigid Enclosures for Industrial Applications
Used as an Alternative to Painted Carbon Steel

Polycarbonate (PC) Enclosures — PC is growing in popularity as a nonmetallic enclosure material. It is used across multiple industries, primarily indoors, to protect electrical/electronic instrumentation & equipment from dust, dirt and chemical corrosive environments.

Allied Moulded's PC enclosures offer a cost-competitive alternative to carbon steel. PC enclosures are injection-molded, engineered, recyclable thermoplastic solutions. A variety of junction box sizes can be precision-molded in standard light gray color or clear "see through" polycarbonate for instrumentation applications where the electronics need to be visible. Many of the enclosure hinges and latches can be molded for a true, all-nonmetallic design.

There are many applications that benefit from Allied Moulded's PC enclosures. Automotive, pulp and paper, and manufacturing are just a few of the industries using FRP enclosures to protect critical system components.

PC is considerably lower in weight, thus reducing installation and shipping costs. Although it may be lower in weight, it still has the rigidity and durability to compete with its carbon steel competitors. Chemical resistance, UV resistance and electrical non-conductivity are a few more reasons that Allied Moulded's PC enclosures can outperform carbon steel.

Once you compare the cost, quality and performance of our polycarbonate products, you will see why Allied Moulded Enclosure Products has the superior enclosure solutions!



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**ALLIED MOULDED
ENCLOSURE PRODUCTS
(INDIA) Pvt. Ltd.**

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Features of Allied Moulded PC:

- Resists a broad range of chemicals, unaffected by moisture and provides resistance to UV rays.
- Lighter weight, lower shipping costs and easier to install in wall or pole mounted applications.
- Nonconductive and is an insulator, provides a safe barrier and protection for the general public.
- Provides sufficient impact resistance and will maintain a sealed closure for electrical equipment.
- Molded in color, no painting or coating required.
- Lower installation cost and shipping cost.
- Transparent to radio waves and EMI/FRI transmissions, used for radar and antennae enclosures.
- Easier to modify; for required holes or electrical service entry, easier to punch, drill or saw with lower associated costs. Also easier/safer to modify or repair without need for arc welding in hazardous areas.
- Material has no residual scrap value, enclosure control panels are less susceptible to vandalism.

	Polycarbonate	Carbon Steel
Corrosive Resistance	Fair	Poor
Chemical Resistance	Good	Poor
Relative Cost	Low to Moderate	Low to Moderate
Drilling, Punching & Cutting	Easy	Hard
Dielectric Strength	Electrical Insulator	Electrical Conductor
Weight	Light	Heavy



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