



# Polycarbonate

## Machine Grade

PC, Polycarb

### Description and Overview

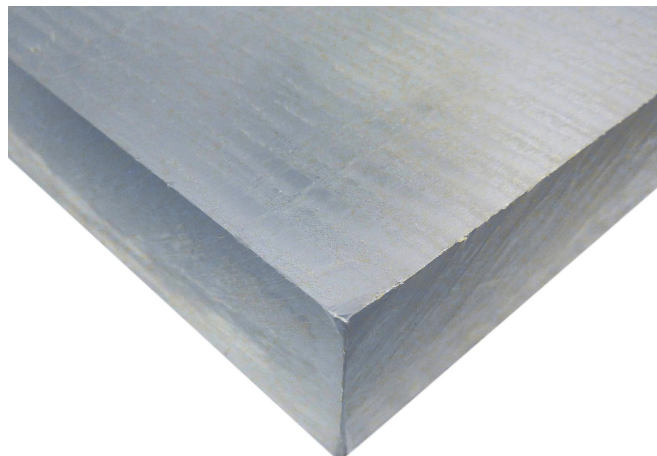
Machine grade polycarbonate is used for applications demanding high stiffness, tensile and impact strength and a low coefficient of linear thermal expansion. It is an amorphous, translucent material that exhibits desirable mechanical and electrical properties as well as excellent dimensional stability.

Machine grade polycarbonate performs continuously in environments from 250°F down to -20°F. Machine grade polycarbonate easily machines to close tolerances, is flame resistant and sees high mechanical retention at elevated temperatures.

### Applications and Uses

Machine grade polycarbonate is easily worked, molded and thermoformed. It can undergo large deformations without cracking or breaking.

- Insulating parts
- Coil bodies
- Relay components
- Plugs
- Lights and lighting
- Housings
- Protective covers
- Medical consumables
- Automotive light housings
- Safety engineering



Full sheet: 24" x 48" (.5" through 2" thick)  
Rod: (0.25" through 4.0" diameter)

### Properties and Specifications

| Property                              | Machine Grade PC |
|---------------------------------------|------------------|
| Specific Gravity                      | 1.20             |
| Water Absorption @ 24 hrs.            | 0.15%            |
| Tensile Strength @ Yield (psi)        | 10,000           |
| Tensile modulus (psi)                 | 320,000 psi      |
| Elongation at break                   | 75%              |
| Flexural modulus                      | 340,000 psi      |
| Hardness, Rockwell                    | M75              |
| Shear modulus (psi)                   | 114,000          |
| Izod Impact Strength (ft-lbs/in.)     | 10               |
| Heat Deflection Temperature @ 264 psi | 280°F            |
| Affixable Properties                  | Chem / Mech      |

Properties are typical.  
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.  
Mech is an abbreviation for mechanically affixed bonding.  
Field testing is recommended for any application.

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WARNING: This product can expose you to chemicals including Bisphenol A, CAS 80-05-7, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



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Rev 3 (09/7/2022)