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Polycarbonate Machine Grade PC, Polycarb

OVERVIEW

Machine grade polycarbonate is used for applications demanding high stiffness, tensile and impact strength and a low coefficient of liner 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.

TECHNICAL DATA

APPLICATIONS & 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

PROPERTY	VALUE
Specific Gravity	1.20
Water Absorption @ 24 Hours	0.15%
Tensile Strength (psi)	10,000
Tensile Modulus (psi)	320,000
Elongation at Break	75%
Flexural Modulus	340,000
Hardness, Rockwell	M75
Shear Modulus (psi)	114,000
Izod Impact Strength (ft-Ibs/in.)	10
Heat Deflection Temperature @ 264psi	280° F
Affixable Properties	Chem / Mech

The data provided gives the typical properties of the material. These are "typical" properties only, and should not be used for specification purposes. This information is based on our experience to date and we believe it to be reliable. It is intended to be used only as a guide at your discretion and risk. Jade cannot guarantee favorable results and assumes no liability in connection with the use of this product. None of this information is to be taken as a license to operate under, or recommendation to infringe, any patents.