

Key Features

- Liquid chemical pumps
- Water tank liners
- Master cylinders
- Dashboard lighting
- Hard contact lenses
- Helmet visors

Common Applications

- UV-resistant
- Low-water absorption
- Good insulation properties
- Good stiffness and abrasion resistance
- Clear/colourable - clarity is excellent

Material Description

Acrylic, also known as Polymethyl Methacrylate (PMMA) or Plexiglass, is a transparent thermoplastic known for its clarity, impact resistance, and weatherability. It is widely used as a lightweight alternative to glass in applications where transparency and durability are important, such as windows, skylights, signage, and display cases. Acrylic is also available in a variety of colors and finishes, making it suitable for decorative and architectural applications. It can be easily machined, drilled, and polished, allowing for intricate designs and high-quality finishes. Additionally, acrylic is resistant to UV radiation and weathering, making it suitable for both indoor and outdoor use.

Mechanical Properties

Ultimate Tensile Strength	7,540 PSI
Tensile Yield Strength	9,570 PSI
Hardness	Rockwell M95
Elongation at Break	10%

Physical Properties

Density	0.043 lb/in ³ (1.11 g/cm ³)
Thermal Conductivity	0.193W/m.K
Modulus of Elasticity	434 KSI (2.99 GPa)
Melting Point	424°F (218 °C)

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

InstaVoxel™ - On-Demand Manufacturing Expert

859 Willard Street Suite 400, Quincy MA 02169 USA
+1 (617) 302-1629 | info@instavoxel.com
www.instavoxel.com



InstaVoxel's quality control system is ISO-9001 certified, and all our partners hold relevant certifications.



All information in our data sheet is based on approximate testing and provided to the best of our knowledge and belief. It is presented without any contractual obligations and does not constitute a guarantee of properties, processing, or application possibilities in specific cases. Our warranties and liabilities are defined solely by our terms of trade.