

# How Machine-Grade ABS Reduces Downtime and Maintenance Costs in Industrial Machinery

*Machine-grade ABS helps reduce equipment wear and maintenance needs across various industrial applications.*

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The manufacturing industry requires materials for industrial machinery that can withstand harsh environments while keeping operations efficient and cost-effective. [Machine-grade ABS \(Acrylonitrile Butadiene Styrene\)](#) from Interstate Advanced Materials is engineered to meet these demands. With excellent impact strength, dimensional stability, and machinability, it helps reduce equipment wear and maintenance needs across various industrial applications.



Black Machine-Grade ABS Sheet

Machine-grade ABS offers high-impact strength and rigidity for housings, covers, enclosures, and structural brackets, making it ideal for protecting internal systems from physical damage. These mechanical properties allow parts to withstand shocks and repetitive stress without cracking, helping reduce downtime and increasing equipment reliability.

In precision-machined parts such as jigs, fixtures, and alignment tools, it is preferred over [extruded ABS](#) due to its consistent internal structure and minimal internal stress. The material's consistent machinability and precision tolerances enable fast, accurate part production, which reduces scrap, shortens fabrication cycles, and lowers labor and tooling costs for manufacturers.

Machine-grade ABS provides strong chemical resistance and excellent electrical insulation for insulators, guides, pump covers, and other components exposed to chemically harsh or electrically sensitive environments. These properties prevent material degradation and protect sensitive components, which extends part life and reduces the need for frequent replacements.



Machine-grade ABS is lighter, easier to fabricate, and more cost-effective than metal. It can also be easily glued and shaped, making it ideal for rapid prototyping and custom part development.”

*Christopher Isar*

ABS's heat resistance and impact strength across a wide temperature range make it ideal for outdoor equipment and refrigerated machinery components. This thermal stability ensures reliable performance in varying conditions, helping manufacturers avoid temperature-related failures and minimize material fatigue.

Machine-grade ABS is lighter, easier to fabricate, and more cost-effective than metal. It can also be easily glued and shaped, making it ideal for rapid prototyping and custom part development. These advantages make it a practical choice for OEMs, maintenance teams, and industrial

designers looking to improve part performance while reducing material and production costs.

Interstate Advanced Materials offers machine-grade ABS in full sheet, rod, and cut-to-size options. Manufacturing professionals can [save 30%+ on ABS and other materials](#) with an Interstate Advanced Materials membership. To learn more about material solutions for reducing downtime and maintenance costs, call a material expert today at 888-768-5759.

Interstate Advanced Materials is a full-line distributor of high-performance sheet, rod, tube, plate, and bar, and proudly serves many diverse industries, including OEM, semiconductor, food processing, POP display, government, agriculture, automotive, and many others. With 10 locations nationwide and an online sales and support team, Interstate Advanced Materials provides full sheets and pallets, cut-to-size service, complex CNC, welding solutions, and full machining capabilities.

Interstate Advanced Materials is known for selling high-quality products, providing excellent customer service, and providing superior technical support. Excellence in all facets of the customer experience has been the cornerstone of Interstate Advanced Materials for over 40 years.

Stephen Sowinski

Interstate Advanced Materials

+1 888-768-5759

[stephen.s@interstateAM.com](mailto:stephen.s@interstateAM.com)

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