

High Performance PTFE Withstands Extreme Temperature Applications

Interstate Advanced Materials offers PTFE sheet, rod, tube, and film for extreme temperature applications.

SACRAMENTO, CA, UNITED STATES, February 7, 2023 /EINPresswire.com/ -- Many industries such as automotive and electrical industries have applications requiring materials with superior resistance to chemicals, friction, or high temperatures. For these applications, high-performance plastics such as PTFE are the preferred material. Also known by the brand name Teflon®, PTFE is a versatile high-performance soft fluoropolymer with exceptional resistance to harsh temperatures, chemicals, and stress cracking. Interstate Advanced Materials offers [PTFE sheet, rod, tube, and film](#) for extreme temperature applications.



PTFE is a low friction material with excellent resistance to high temperatures and chemicals.

PTFE (Polytetrafluoroethylene) withstands a broad range of temperatures. Compared to other high-performance plastics such as PEEK, PTFE can handle long-term exposure to heated environments of up to 500°F as well as environments with temperatures as low as -350°F. This makes it a good choice for engine parts and interior car parts in the automotive industry as well as semiconductor parts, circuit boards, and general electrical insulation in the electrical industry. Combined with its excellent chemical resistance, PTFE is chosen for high-temperature hoses and tubing to transfer corrosive chemicals or materials.

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Christopher Isar

PTFE is used for more than just high-temperature applications. Mechanically tough but soft and

formable, PTFE can bear high loads and [glass-filled PTFE enhances its strength and stiffness](#). As a versatile high-performance plastic with many applications across the medical, automotive, and industrial industries, it sees use in medical-grade components, instruments, and testing equipment. Outside of internal components in the automotive industry, PTFE coats wiper blades and in some cases covers the body of a car, acting as an alternative for protective ceramic coating. Its general weatherability allows the solar panel industry to use it as a coating to enhance solar panel durability and chemical resistance. PTFE's low coefficient of friction makes it a preferred design choice for bearing and wear components, including gaskets, seals, and hoses.

Interstate Advanced Materials offers a selection of PTFE sheet, rod, tube, and film in FDA-approved, electrical, mechanical, glass-filled, and bearing grades. [Save up to 30% off PTFE and other materials](#) with an Interstate Advanced Materials membership. To learn more about PTFE and its uses for high-temperature applications, call the material experts at (800) 742-3444.

Interstate Advanced Materials is a full-line distributor of sheet, rod, tube, bar, film, profile, and accessories, tools, and care products. With 10 locations nationwide and an online sales and support team, Interstate Advanced Materials provides full sheets and pallets, simple cut-to-size service, and complex CNC manufacturing. Interstate Advanced Materials is known for its reputation of selling high-quality products, providing excellent customer service, and superior technical support. Our products and services are available using the safe, secure, and convenient purchasing system on the Interstate Advanced Materials website. For instant help, we're always a phone call away at (800) 742-3444.

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