



## HIGH-PERFORMANCE POLYMER WITH HIGH STRENGTH AND STIFFNESS

Amodel® PPA (polyphthalamide) is a high-performance polymer that offers exceptionally high strength and stiffness, even up to temperatures of 280°C. This family of high-temperature polyamides upholds its mechanical integrity after thousands of hours in elevated temperatures, high humidity and aggressive chemical environments.

**BASED ON A SERIES OF FIVE DIFFERENT BASE RESINS, AMODEL® PPA PROVIDES A DISTINCT SELECTION OF PERFORMANCE AND PROCESSING ATTRIBUTES, EMPOWERING OEMS IN A RANGE OF DEMANDING APPLICATIONS AND MARKETS.**

## CHARACTERISTICS

Amodel® PPA resins use fiber reinforcements, heat stabilizers, impact modifiers, flame retardants, minerals and other additives to achieve a broad range of performance, price and processing options. Characteristics and properties found across the product line includes:

- Outstanding strength and stiffness at elevated temperatures
- Better retention of properties in humid environments
- Excellent resistance to a broad range of chemicals
- Available in glass-fiber-reinforced, impact-modified, high-flow or food-contact-approved grades

### Automotive & Mobility

Amodel® PPA is optimal for automotive applications due to its ability to withstand high temperatures, humidity, and chemically aggressive environments. Replacing traditional metals with Amodel® PPA can help improve fuel consumption, safety, and energy efficiency.

Applications include:

- Thermostat Housings
- Clutch Cylinders
- Charge Air Coolers
- Heater Cores
- Water Pumps
- Fuel connectors
- Engine & transmission sensors



## Electric Vehicles and Hydrogen Fuel Cells

Amodel® PPA is well-suited for the green hydrogen economy, thanks to its enhanced chemical resistance, superior dimensional stability, low moisture uptake and more. With robust mechanical properties, Amodel® PPA enables optimal design freedom and processability for complex green hydrogen applications.

Applications include:

- Water Pumps
- Electronic coolant valves
- Knock-Off Valves
- Hydrogen Injection Components
- eMotor busbars and high voltage connectors
- Fuel Cell Stack End Plates



## Electrical and Electronics

Amodel® PPA is ideal for electrical and electronics applications due to its outstanding heat, electrical and insulative properties. Its high-strength and stiffness, superior flow and flatness and high gloss also enable for usage in a variety of smart device components.

Applications include:

- Connectors
- Switches
- Controller Housings
- Ultra-Thin Structural And Cosmetic Frames
- Camera Lens Holders
- Module Brackets



## Consumer and Construction

Amodel® PPA is particularly well-suited for the consumer and construction industries, as it exhibits outstanding long-term strength and performance, mechanical integrity and a high-quality surface finish despite harsh conditions and environments. Amodel® PPA can also be designed in food-contact-approved grades, making it optimal for consumer goods where high-temperature compatibility is required.

Applications include:

- Coffee Brewing Chambers
- Tubing, Piping And Valve Housings
- Valves For Hot Water Tanks And Boilers
- Pumps
- Water Meters
- Household Appliances



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