

Amodel[®]



SOLVAY

asking more from chemistry[®]

Amodel[®] PPA

for Cooling & Heating Systems

**SPECIALTY
POLYMERS**

Proven Performance

Amodel® polyphthalamide (PPA) has replaced die-cast aluminum in engine cooling systems for over 20 years and is routinely used in under-the-hood applications where heat, humidity and chemical resistance are major considerations.

Similar to polyphenylene sulfide (PPS), Amodel® PPA offers excellent dimensional stability in corrosive, high-temperature environments along with better fatigue and impact resistance, superior strength at 130 °C (266 °F) after prolonged exposure to engine coolants, and faster molding cycle times.

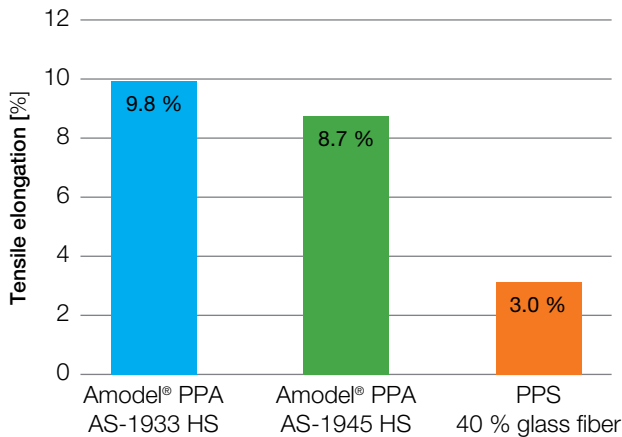
Undercut Designs

Amodel AS grades are unique among high-performance plastics in their ability to mold undercut designs. Simplified mold designs can reduce tooling costs associated with parting lines.

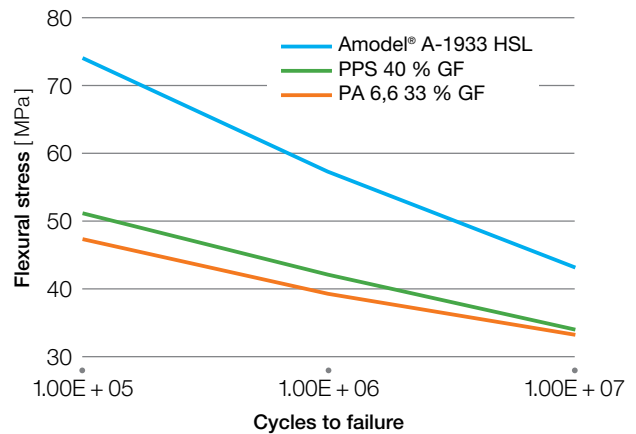
Glycol-resistant Amodel® PPA grades

Amodel® A-1933 HSL	33 % glass fiber, glycol resistant, heat stabilized, lubricated
Amodel® AS-1933 HS	33 % glass fiber, for thick-wall parts (> 3 mm), glycol resistant, heat stabilized, undercut molding
Amodel® AS-1945 HS	45 % glass fiber, for thick-wall parts (> 3 mm), glycol resistant, heat stabilized, undercut molding

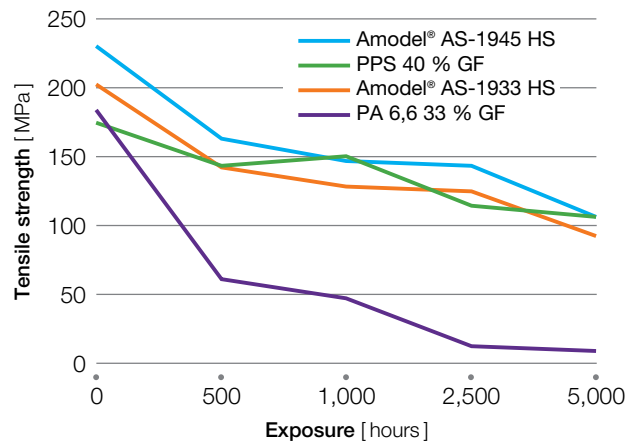
Tensile elongation at 130 °C (266 °F)



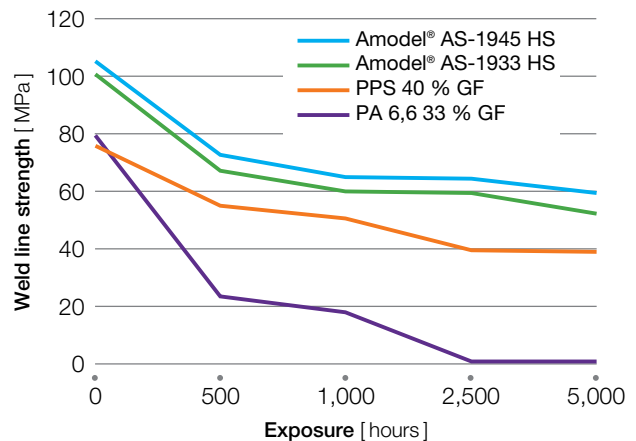
Fatigue resistance at 32 Hz and 170 °C (338 °F)



Tensile strength after prolonged exposure to long-life coolant



Weld line strength after prolonged exposure to long-life coolant



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