Amodel®

SOLVAY

asking more from chemistry®

Amodel® PPA

for SCR Applications Requiring Long-Term Exposure to AdBlue®

SPECIALTY POLYMERS

Amodel® PPA for SCR Applications

Selective Catalytic Reduction (SCR) is the principle method used to reduce nitrous oxides emissions from passenger and heavy duty diesel engines. Thermoplastic components used in this technology provide opportunities for weight reduction, part integration and reduced cost.

Key requirements

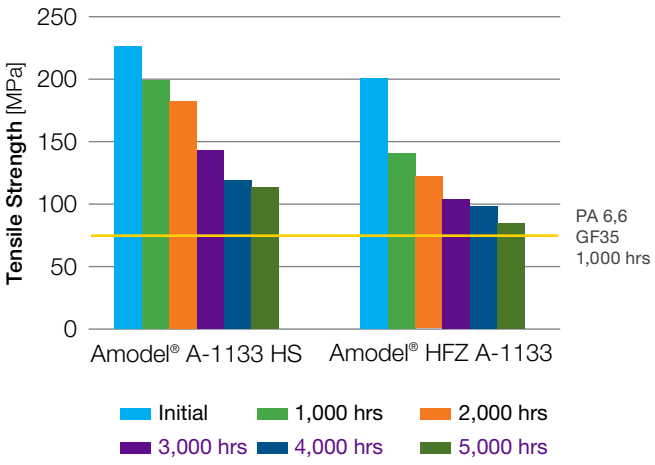
- Retention of mechanical properties when continuously exposed to AdBlue® for 5,000 hours
- Excellent dimensional stability to prevent leakage
- High thermal stability for use in exhaust components
- Resistance to automotive fluids, fuels and road salts
- Low urea solution permeation

Still Strong After 5,000 Hours

Amodel® polyphthalamide (PPA) retains its high tensile strength and other mechanical properties after being continuously exposed to AdBlue at 80 °C (176 °F) for over 5,000 hours. This high-performance polyamide meets all specified requirements for SCR applications and has been used commercially for more than five years.

Tensile strength retention

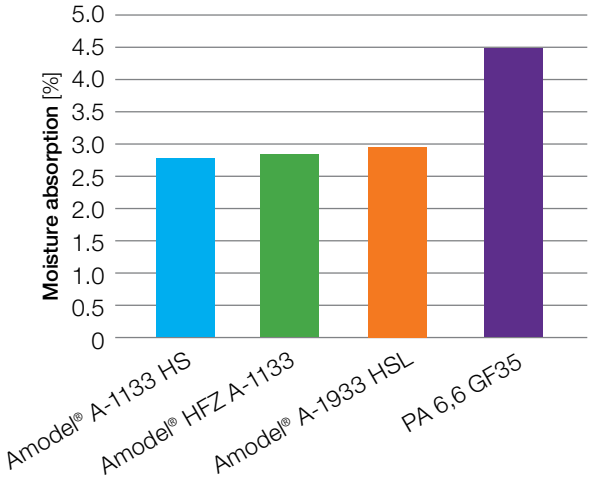
After 5,000 hours exposure to AdBlue® at 80 °C (176 °F)



Low Moisture Absorption

Moisture absorption adversely affects dimensional stability. Amodel® PPA has lower moisture absorption than standard polyamides, providing the excellent dimensional stability needed to prevent leakage of the urea solution.

Dimensional stability



For more information on Solvay's extensive testing, please contact Mark.Wright@solvay.com.

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