

Hydrogen Fuel Tanks

Automotive

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Benefits

- Lightweight, 75% reduction
- Durable, impact-resistance –40°C
- Low permeation
- Thermal stability, strong at 65–85°C
- Cost-efficient, easy processing
- Corrosion-resistant, no degradation
- Eco-friendly, PA6 thermoplastic

Details

Hydrogen fuel tanks require lightweight, durable materials with high thermal and mechanical stability. Traditional materials like steel and aluminum are heavy and costly, while HDPE has higher permeation risks. Durethan® and Akulon® Fuel Lock PA6 provide a superior alternative, offering excellent barrier behavior, impact resistance, and processability. These materials meet industry safety standards (ECE R110) while ensuring long-term performance and cost efficiency. Their proven success in CNG tanks since 2012 makes them an ideal choice for hydrogen storage.

Products

Akulon® Fuel Lock FLE40-HP
PA6-I

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