



The Rotomolded Solution For Meeting Stricter CARB/EPA Fuel Permeation Regulations

**Target Markets: Motorcycle, Recreational Vehicle,
SORE (Small Off-Road Equipment), Agricultural, Industrial,
Lawn and Garden, Marine and Automotive**

- CARB (California Air Resources Board) exempt for small off road equipment market (SORE)
- Unique composite structure
- Ultra-low permeation to fuel CE10 (10% Ethanol)
 - Meets EPA requirements
- Excellent permeation resistance to higher alcohol content fuels
- Two layer composite system with excellent adhesion
 - Critical to ensure low permeation, especially to alcohol containing fuels
 - No loss of adhesion when tank is drilled, tapped or when mechanical inserts are installed
- Passes SAE J1241 motorcycle fuel tank lateral impact test
- Passes SAE J288 snowmobile fuel tank impact test
- Passes US Coast Guard regulation for permanently installed marine fuel tanks*
- Excellent impact and toughness
- Good strength and flexibility
- Salt and hydrolysis resistance
- Cost competitive and easily pigmented

* 40 gallon marine fuel tank provided by Solar Plastics Inc.
and testing done by Imanna Labs



Regulations and Fuel Tank Permeation Requirements

Applications	Agency	Fuel	Temperature	Limit	Timing Model/ Year	PetroSeal™ Results
Motorcycle and Recreational Vehicles	EPA	CE10	28°C	<1.5g/m ² /day	2008	Passes
Small Off Road Equipment	CARB*	C	40°C	<2.5g/m ² /day <1.5g/m ² /day	2008 2012	Passes Passes
Marine and Lawn & Garden	EPA	CE10	28°C	<1.5g/m ² /day	2010**	Passes

Contacts for samples or more information:

Business Development
 Ron Partridge
 Arkema Inc.
 2000 Market Street
 Philadelphia, PA 19103
 Phone: 215-419-7874
 Cell: 484-678-7243
 Email: Ron.Partridge@Arkema.com

Technical Service
 Bruce Clay
 Arkema Inc
 900 First Avenue
 King of Prussia, PA 19406
 Phone: 610-878- 6018
 Cell: 610-960-8641
 Email: Bruce.Clay@Arkema.com

* California Air Resources Board

** Expected timing for this new regulation

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Arkema Inc.
 2000 Market Street,
 Philadelphia, PA 19103
 www.Arkema-Inc.com