

State of California  
AIR RESOURCES BOARD

Small Off-Road Engine Evaporative Emission System Components

Q-08-027A  
Centro Inc.  
Innovative Product

WHEREAS, Pursuant to California Health and Safety Code, sections 39600, 39601 and 43013, the California Air Resources Board (ARB) has established a certification process for evaporative emission system components designed to control gasoline emissions from small off-road engines, as described in title 13, California Code of Regulations (13 CCR), section 2767.1;

WHEREAS, Pursuant to California Health and Safety Code, section 43013, ARB has established criteria and test procedures for determining the compliance of evaporative emission system components with the design requirements in 13 CCR, section 2754;

WHEREAS, Pursuant to 13 CCR, section 2767.1, ARB Executive Officer may issue an Executive Order if he determines that the small off-road engine evaporative emission system component or innovative product conforms to the applicable performance requirements set forth in 13 CCR, section 2754 and 2755;

WHEREAS, Pursuant to Health and Safety Code, sections 39515 and 39516, ARB Executive Officer issued Executive Order G-05-008 delegating to the Chief of ARB Monitoring and Laboratory Division (MLD) the authority to certify small off-road engine evaporative system components and innovative products; and

WHEREAS, On August 6, 2008, Centro Inc. submitted an application for certification as an innovative product under 13 CCR, section 2767(c) for RotoLoPerm<sup>®</sup> molded fuel tanks. On April 29, 2009, Centro Inc. submitted a request and supporting documentation for an amendment to allow natural and pigmented non-barrier (XLPE) material be used for RotoLoPerm<sup>®</sup> molded fuel tanks, and on May 4, 2009, Centro Inc. requested information concerning warranty responsibility that is clarified in this amendment.

NOW, THEREFORE, I, William V. Loscutoff, Chief of MLD, find that fuel tanks produced using Centro Inc. RotoLoPerm<sup>®</sup> material and following the process and material specifications set out in Attachment A constitute an innovative fuel tank pursuant to 13 CCR, section 2767(c). Fuel tanks produced following Centro Inc. process and material specifications with natural and pigmented non-barrier (XLPE) material are hereby deemed equivalent to those tanks listed in 13 CCR, section 2752(a)(5). This finding is based on Centro Inc. demonstration that such tanks have a permeation rate substantially lower than 1.5 grams per square meter per day set forth in 13 CCR, section 2754, when tested at a constant temperature of 40° C pursuant to TP-901 using an approved test fuel of CE10.

IT IS ORDERED AND RESOLVED that no tank permeation data is required to be submitted in the certification process for equipment using the Centro Inc. RotoLoPerm<sup>®</sup> molded fuel tank.

IT IS ORDERED AND RESOLVED that all fuel tanks made from Centro Inc. RotoLoPerm<sup>®</sup> with average barrier and wall thicknesses equal to or greater than the value listed in Table 1 attached hereto and incorporated herein, are certified for use in small off-road equipment.

Table 1  
Specifications for Centro Inc. RotoLoPerm® Fuel Tanks

Min. average barrier thickness (mm)	Min. average overall tank thickness (mm)
0.5	2.5

IT IS FURTHER ORDERED that any manufacturer molding fuel tanks using the Centro Inc. RotoLoPerm® materials and process shall provide a warranty to equipment manufacturers purchasing the fuel tanks. The warranty must conform to the requirements of 13 CCR, section 2760.

IT IS FURTHER ORDERED that the certified RotoLoPerm® molded tanks shall be installed in accordance with the manufacturer's installation and use instructions for the tank. A copy of this Executive Order, fuel tank installation, and use instructions shall be provided to manufacturers purchasing Centro Inc. RotoLoPerm® molded fuel tanks for installation on small off-road engines and equipment introduced into commerce in California.

IT IS FURTHER ORDERED that Centro Inc. RotoLoPerm® molded fuel tanks shall be clearly identified by a permanent identification that allows ARB to identify manufacturer's name, executive order number, and model number.

IT IS FURTHER ORDERED that any modification of Centro Inc. approved process and material specifications for producing a RotoLoPerm® molded fuel tank are prohibited. Any alteration or modification of the process or material specifications set out in Attachment A of this Executive Order will require the manufacturer to apply for a new Executive Order.

IT IS FURTHER ORDERED that the Centro Inc. RotoLoPerm® molded fuel tank shall be compatible with fuels in common use in California at the time of certification and any modifications to comply with future California fuel requirements shall be approved in writing by the Executive Officer or Executive Officer's delegate.

IT IS FURTHER ORDERED that the innovative product certification of the Centro Inc. RotoLoPerm® molded fuel tank can be referenced in certification applications for small off-road engines and equipment that use small off-road engines unless the Executive Officer finds that the Centro Inc. RotoLoPerm® molded fuel tank no longer meet the performance requirements set forth in 13 CCR, section 2754 when tested pursuant to 13 CCR, section 2765.

Executed at Sacramento, California, this 4<sup>th</sup> day of August 2009.

  
William V. Loscutoff, Chief  
Monitoring and Laboratory Division