

New Low Fuel Permeation Solutions from Nylene®

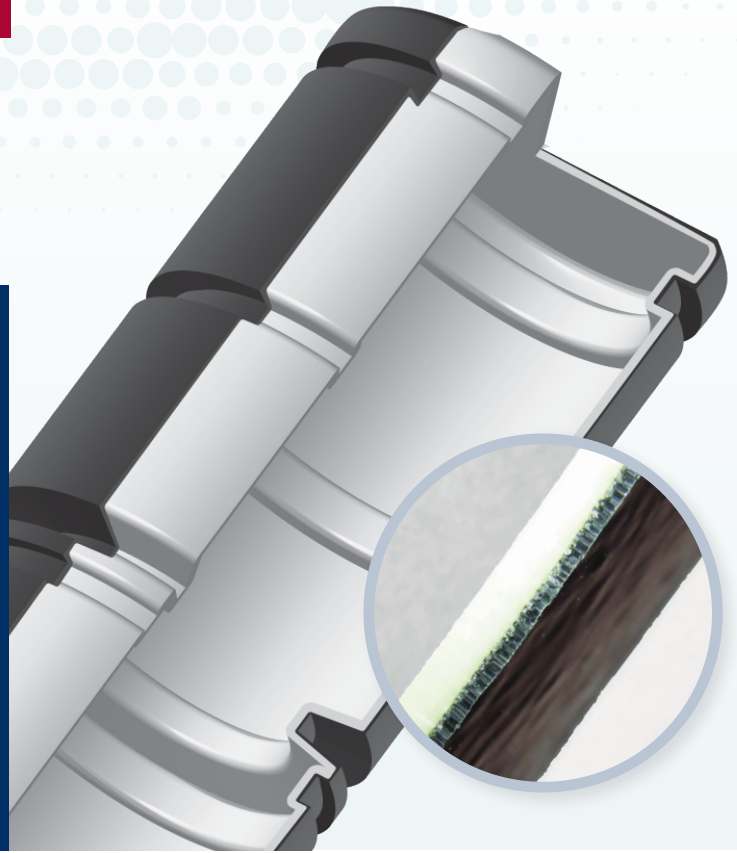
Nylene Rotomolding Materials Meet CARB and EPA Permeation Standards

Nylene® 894 IM

Two Layer AND Single Layer Low Fuel Permeation

Nylene® 894

Single Layer Low Fuel Permeation Barrier Systems



Nylene Rotomolding permeation tests average .3g/m²/day, well below the permeation requirement for CARB and EPA.

Nylene 894 and 894 IM Single Layer

- ✓ Simple one step process
- ✓ No secondary post mold procedures
- ✓ Formulated with a lower processing temperature for faster cycle times

Nylene 894IM Two Layer Low Fuel Permeation

- ✓ Formulated to work in a two layer application
- ✓ Lower processing temperatures for faster total cycle times
- ✓ Most cost effective low permeation solution



Rotomolding grades formulated to meet both CARB and EPA Low Permeation Requirements



Excellent Applications for Nylene Rotational Molding Materials

- ✓ Low Hydrocarbon Permeation Tanks
- ✓ Hot Air Ducts
- ✓ Blower Housings
- ✓ Hydraulic Tanks
- ✓ Diesel Tanks

Key Nylon Benefits

- ✓ Toughness/Impact Resistance
- ✓ Carb Compliant in Single Layer
- ✓ Excellent Environmental Stress Crack Resistance 248°F(120°C)
- ✓ Heat Resistance up to 250°F (121°C)
- ✓ Low Coefficient of Friction
- ✓ Fuel and Hydrocarbon Resistance
- ✓ Abrasion and Wear Resistance
- ✓ Corrosion Resistance
- ✓ Paintable

About Nylene

Nylene manufactures products that range from: compounded nylons and copolymers, modified for flexibility, impact strength, and color. Nylene works closely with customers to develop customized solutions for unique applications.



Nylene® High Performance Rotational Molding Materials

Nylene Rotational Molding materials are specially formulated for your critical applications.



Nylene Rotomolding Solutions

Nylene's nylon rotational molding grades are designed for the specific properties required in demanding applications.

- ✓ Low Fuel Permeation- CARB and EPA
- ✓ High Abrasion Resistance
- ✓ High Heat Resistance
- ✓ High Flex and Tensile
- ✓ High Chemical Resistance
- ✓ High Abrasion and Wear Resistance
- ✓ Excellent Environmental Stress Cracking Resistance

Expand your opportunities with Nylene's high performance rotational molding materials to excel in challenging applications.

- ▶ Hydraulic Tanks
- ▶ Hot Air Ducts
- ▶ Blower Housings
- ▶ Hot Liquid Tanks
- ▶ Low Permeation Fuel Tanks
- ▶ Industrial Containers
- ▶ Diesel Tanks.
- ▶ DEF Tanks

Low Hydrocarbon Permeation



Fuel Tank Applications

- ✓ Single Layer Fuel Tanks
- ✓ Barrier Layer with XLPE or PE

Highest Operating Temperature



High Performance Applications

- ✓ Hot Air Ducts
- ✓ Hydraulic Oil Tanks

Higher Chemical Resistance



Chemical Resistance

- ✓ Aliphatic and aromatic solvents
- ✓ Aqueous solutions of Inorganic chemicals
- ✓ Oils and lubricants





Nylene Solutions for Rotational Molding Applications

The right engineered resin for applications requiring; low permeation, high temperature, and/or increased mechanical properties at the most competitive cost.

Product Features	Nylene 494P	Nylene 494P IM	Nylene 894	Nylene 894 IM
Applications	<ul style="list-style-type: none"> Hydraulic Tanks Hot Air Ducts Diesel Tanks Chemical Storage Single Layer Low Permeation Tanks 	<ul style="list-style-type: none"> Hydraulic Tanks Hot Air Ducts Chemical Storage Two-Layer Low Permeation Fuel Tanks Single Layer Low Permeation Fuel Tanks Diesel Tanks 	<ul style="list-style-type: none"> Chemical Storage Hot Air Ducts Hydraulic Tanks Single Layer Low Permeation Fuel Tanks Diesel Tanks 	<ul style="list-style-type: none"> Chemical Storage Hot Air Ducts Hydraulic Tanks Single Layer Low Permeation Fuel Tanks Two-Layer Low Permeation Fuel Tanks Diesel Tanks
Low Fuel Permeation Barrier System	✓ Single Layer	✓ Single or Two Layer	✓ Single Layer	✓ Single or Two Layer
Single Layer Fuel and Hydraulic	✓	✓	✓	✓
Two Layer System Fuel and Hydraulic		✓		✓
Low Fuel Permeation System	<ul style="list-style-type: none"> Formulated to meet both CARB and EPA low permeation regulations Q-13-016 CARB Executive Order Letter for Innovative Product FMVSS 302 (self extinguishing) 	<ul style="list-style-type: none"> Formulated to meet both CARB and EPA low permeation regulations Q-08-028 CARB Executive Order Letter for Innovative Product FMVSS 302 (self extinguishing) 	Formulated to meet both CARB and EPA low permeation regulations	Formulated to meet both CARB and EPA low permeation regulations
Key Features and Benefits	<ul style="list-style-type: none"> Higher Heat Resistance Chemical Resistance UV Protected Abrasion and Wear Resistance Excellent Environmental Stress Cracking Resistance Strength and Modulus 	<ul style="list-style-type: none"> Higher Heat Resistance Excellent RT Impact Strength Chemical Resistance UV Protected Abrasion and Wear Resistance Excellent Environmental Stress Cracking Resistance Strength and Modulus 	<ul style="list-style-type: none"> Lower Processing Temperature than 494 Grades for Faster Cycle Times Chemical Resistance UV Protected Abrasion and Wear Resistance Excellent Environmental Stress Cracking Resistance Strength and Modulus 	<ul style="list-style-type: none"> Lower Processing Temperature than 494 Grades for Faster Cycle Times Excellent RT Impact Strength Excellent Cold Temperature Impact Chemical Resistance UV Protected Abrasion and Wear Resistance Excellent Environmental Stress Cracking Resistance Strength and Modulus