

# Vikoflex® 7190

EPOXIDIZED LINSEED OIL

Functional Additives 

## Product Description

Vikoflex® 7190 is a specialized premium-quality epoxidized linseed oil with superior performance properties distinguishing it from all currently available epoxidized linseed oils. Its high compatibility and superior heat and light stability enable Vikoflex® 7190 epoxidized linseed oil to function as a primary, polymeric type, plasticizer-stabilizer.

Vikoflex® 7190 epoxidized linseed oil is recommended for food contact packaging and medical applications where very little or no metallic stabilizer is used. Low odor properties also contribute to the high acceptance of Vikoflex® 7190 epoxidized linseed oil in these critical areas.

Vikoflex® 7190 epoxidized linseed oil is recommended for PVC homopolymer and copolymer plasticization and stabilization in a host of rigid, semi-rigid, flexible extruded, calendered, and molded compounds.

## Typical Physical Properties

Oxirane Oxygen	9.0% Min
Acid Value	0.5 Max
Specific Gravity 25/25°C	1.03
Refractive Index @ 25°C	1.4765
Color - APHA	225 Max
Fire Point	343°C
Pounds Per Gallon @ 25°C	8.58
Odor	Very Low

## Product Benefits

1. Superior Heat & Light Stability
2. Styrene Craze Resistance
3. Low Volatility
4. Light Color
5. Low Viscosity
6. Low Odor
7. Less Clouding at Low Temperatures

The remarkable heat stability of Vikoflex® 7190 epoxidized linseed oil gives the vinyl compounder a greater margin of safety and in many applications offers the economic advantage of reducing metallic stabilizer levels.

Applications specifying low or nonexistent levels of metallic stabilizer clearly establish the superiority of Vikoflex® 7190 epoxidized linseed oil over all competitive products. Brabender curves show a lower torque requirement for Vikoflex® 7190 epoxidized linseed oil as compared to other epoxidized linseed oils. Conventional oven heat stability tests of non-stabilized compounds show the following:

## Heat Stability

	Vikoflex® 7190	Comp A	Comp B
12 Min	Clear	Light Yellow	Clear
18 Min	Clear	Dark Yellow	Light Yellow
24 Min	Clear	Very Dark Yellow	Medium Yellow
30 Min	Clear	Very Dark Yellow	Medium Yellow
36 Min	Clear	Brown	Yellow
42 Min	Clear	Brown	Dark Yellow
48 Min	Clear	Dark Brown	Very Dark Yellow

Conditions: 375°F oven temperature  
10% of total plasticizer as epoxidized linseed oil.

## Suggestions for Use

- Intravenous Tubing
- Pipe
- Cap Liners & Seals
- Blood Bags
- Molded Bottles
- Construction Materials
- Food Wrap Film
- Meat Trays
- Upholstery

## Packaging

Vikoflex® 7190 epoxidized linseed oil is available in 55 gallon (450 lb net), 40,000 lb bulk tanktrucks and 160,000 lb min tankcars.

## Environmental and Safety Information

BEFORE HANDLING THIS MATERIAL, READ AND UNDERSTAND THE MSDS (MATERIAL SAFETY DATA SHEET) FOR ADDITIONAL INFORMATION ON PERSONAL PROTECTIVE EQUIPMENT AND FOR SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION.

For Environmental, Safety & Toxicology information, contact our Customer Service Department at 1.800.331.7654 in the US or (+33) (0) 1.49.00.88.02 in Europe to request a Material Safety Data Sheet.

## More Technical Information Available

Ask your Arkema account manager for further information about other high quality Arkema additives for use in PVC resins, PVC alloys, and other polymer systems. Arkema produces a full line of heat stabilizers, impact modifiers, process aids and epoxidized vegetable oils. In addition, Arkema's Technical Service staff is available to assist compounders and processors solve formulation and processing problems.

### Biostrength® Modifiers for Sustainable Additives

The Biostrength® product line of impact modifiers, melt strengtheners, and metal release agents are designed to improve properties and enhance processability of polylactic acid (PLA) and other biopolymers and biopolymer compounds for use in sheet extrusion, calendaring, blow molding, thermoforming and foamed applications. Biopolymer applications can now achieve the physical properties and economy of traditional petroleum-based engineering resins, so you can confidently deliver a more sustainable product.

### Clearstrength® & Durastrength® Impact Modifiers

Clearstrength® and Durastrength® impact modifiers are designed to meet a wide variety of processing requirements, from high efficiency modifiers for durable, exterior building products to high clarity, crease resistant products for packaging applications. Arkema's impact modifiers provide PVC processors with cost effective performance and lot-to-lot consistency.

### Plastistrength® Process Aids

Plastistrength® process aids offer producers of rigid and flexible PVC greater product uniformity by improving compound fusion and flow during extrusion, injection molding and thermoforming. Variances in wall thickness and surging can be greatly minimized with Plastistrength® process aids.

### Thermolite® Heat Stabilizers

Thermolite® heat stabilizers are designed for use in the production of rigid, semi-rigid, foamed, and flexible PVC products. Arkema has developed PVC heat stabilizers specifically for extruded siding, profiles and pipe, injection molding, blow molded bottles, and calendared or extruded sheet. Arkema offers a full line of stabilizers that meet FDA requirements for food grade PVC packaging, and a full line of NSF authorized stabilizers for PVC potable water pipe & fittings.

### Vikoflex® Epoxy Plasticizers

The Vikoflex® line of epoxy plasticizers offers flexible PVC producers one of the highest quality, dual-function epoxidized vegetable oils available. Arkema has the ability to produce material with exacting specifications to meet varied customer requirements.

## For Technical Information Contact

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## For Order Information Contact

Please contact your local account manager or our headquarters:

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