

# Vikoflex<sup>®</sup> 4050

LOW TEMPERATURE OCTYL EPOXY ESTER PLASTICIZER

Functional Additives 

## Product Description

Vikoflex<sup>®</sup> 4050 is a new low temperature octyl epoxy ester plasticizer which provides improved heat and light stability in vinyl formulations.

Vikoflex<sup>®</sup> 4050 octyl epoxy ester plasticizer offers several important advantages over other low temperature plasticizers. Vikoflex<sup>®</sup> 4050 octyl epoxy ester plasticizer has a higher oxirane oxygen content resulting in better heat and light stability at equal use levels. Vikoflex<sup>®</sup> 4050 octyl epoxy ester plasticizer is a non-tall oil based material and therefore, not subject to the quality variations of tall oil. Vikoflex<sup>®</sup> 4050 octyl epoxy ester plasticizer is an extremely low viscosity material. This characteristic makes it an attractive viscosity reducing and viscosity stabilizing agent. In addition, good color, low odor and uniform quality make Vikoflex<sup>®</sup> 4050 octyl epoxy ester plasticizer the low temperature epoxy ester plasticizer of choice for many applications.

## Typical Physical Properties

Oxirane Oxygen	5.3% Min
Specific Gravity 25/25°C	0.924
Pounds Per Gallon @ 25°C	7.70
Viscosity Stokes @ 25°C	45 CPS Max
Acid Value	1.0 Max
Pour point	13°F
Flash point	420°F
Refractive index	1.456
Odor	Mild

## Product Benefits

1. Excellent Low Temperature Flexibilizer
2. Excellent Heat & Light Stabilizer
3. Stable Raw Material Source
4. High Oxirane Oxygen
5. Low Viscosity
6. Excellent Wetting Agent
7. Good Color
8. Low Odor

## Suggestions for Use

- Plastics and organosols
- Flexible, semi-flexible and rigid PVC formulations
- Rotation castings
- Slush moldings
- Dip compounds
- Pigment dispersions
- Calendering films
- Acid neutralizer

## Performance Properties @ 50 phr

Tensile strength	2510 psi
100% modulus	1230 psi
Elongation	405%
Clash & Berg (Tf = 135,000)	-38°C
Oven volatility	2.6%
Soap Extraction	14.2%
Mineral oil extraction	9.0%
Gasoline extraction	11.8%

## Packaging

Vikoflex<sup>®</sup> 4050 octyl epoxy ester plasticizer is available in bulk 55 gallon (425 lb net) steel drums and 40,000 lb bulk tanktrucks.

## 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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