



Vikoflex® 4050

Low Temperature Octyl Epoxy Ester Plasticizer

PRODUCT DESCRIPTION

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

Vikoflex® 4050 octyl epoxy ester plasticizer offers several important advantages over other low temperature plasticizers. Vikoflex® 4050 octyl epoxy ester plasticizer has a higher oxirane oxygen content resulting in better heat and light stability at equal use levels. Vikoflex® 4050 octyl epoxy ester plasticizer is a non-tall oil based material and therefore, not subject to the quality variations of tall oil. Vikoflex® 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® 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® 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) / SDS (SAFETY DATA SHEET) FOR ADDITIONAL INFORMATION ON SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION.

The MSDS/SDS are available on our Website www.arkema.com or upon request at our Customer Service Department at +1(800) 331 7654 in the US, and at +33 (0)1 4900 8837 in Europe. Arkema believes strongly in Responsible Care® as a public commitment.

MORE TECHNICAL INFORMATION AVAILABLE

Ask your Arkema account manager for further information on high quality Arkema additives for use in PVC, PC, PBT, ABS, PLA and other polymer systems. Arkema produces a full line of impact modifiers, processing aids and epoxidized vegetable oils. In addition, Arkema's Technical Service staff is also available to assist compounders and processors with formulation and processing advice.

Durastrength® Impact Modifiers

Durastrength® acrylic impact modifiers deliver outstanding impact characteristics for outdoor durable applications in PVC and Engineering Resins.

Plastistrength® Process Aids

Plastistrength® process aids offer producers a complete line of melt strengtheners and metal release agents for PVC and Engineering Resins. Plastistrength® process aids can improve fusion, surging, and aesthetics.

Clearstrength® Impact Modifiers

Clearstrength® MBS impact modifiers are designed for extreme impact or impact/clarity combination in PVC and Engineering Resins.

Biostrength® 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 compounds.

Vikoflex® Epoxy Plasticizers

The Vikoflex® line of epoxy plasticizers is derived from renewable resources, like epoxidized linseed oil, soybean and tall oil fatty acid esters for applications such as PVC plasticization, acid and mercaptan scavenging, specialty coatings, adhesives & urethanes, reactive diluents, PU flexible foam and intermediates for surfactants and lube & fuel additives.

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