PAMOLYN™ 347 Fatty Acid

PAMOLYN™ 347 fatty acid is rich in conjugated linoleic acid and oleic acid. The conjugated linoleic acid is produced synthetically by a Synthomer process that isomerizes 9, 12-nonconjugated linoleic acid to the 9, 11- and 10, 12-conjugated forms, and controls the ratio of cis-trans to trans-trans isomers. Outstanding for low odor, pale color, and color stability, PAMOLYN™ 347 fatty acid contains 38 to 44% conjugated diene fatty acids, which makes it more reactive when compared with natural linoleic acids of similar linoleic content. Fast bodying of protective coating resins and excellent surface-dry and through-dry of their films are noted. Uses include production of epoxy resin esters; modifiers of styrenated and other alkyds; chemical intermediates for reactions involving conjugated unsaturation; and applications wherever dehydrated castor oil and/or fatty acids are used.

- Excellent color stability
- High percentage of conjugated linoleic acid
- Highly reactive and fast-drying derivatives
- Low unsaponifiables
- Pale color

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

eMail: Adhesive.Technologies@Synthomer.com

Property	Typical Value	Unit	Method[1]
Acid Number	193	mg KOH/g	CA-050, Internal based on ASTM D465
Fatty Acids	97.1	%	CQ-008, Internal based on ASTM D1585
Rosin Acids	1.5	%	CA-046, Internal based on ASTM D1240
Unsaponifiables	1.4	%	CA-052, Internal based on ASTM D1065
Color, Gardner	2.5	neat	AC-100 / ASTM D6166
Titer	5	°C	CS-034, Internal based on ASTM D1982
Specific Gravity @ 25°C	0.90	kg/L	
Specific Gravity @ 25°C	7.50	lb/gal	
Conjugated Acids (incl. C18:2 linoleic)	40	%	GC-016
Palmitic Acid (C16:0)	0.4	%	GC-016
Stearic Acid (C18:0)	0.5	%	GC-016
Oleic Acid (C18:1)	44	%	GC-016
Polyunsaturated Acids, Total (TPU: C18:2, C18:3, etc.)	54	%	GC-016

[1] internal method based upon the specified norm

Applications

Caulks and Sealants, Graphic inks, Other coatings, Plastic Modification

Packaging

Synthomer provides PAMOLYN™ 347 Fatty Acid directly in tank truck or lined tank cars. Contact your Synthomer representative for information about smaller quantities through our distributor network.

Storage

Do not store in carbon steel containers since fatty acids will react and discolor. Inside storage and "first in first out" inventory control is recommended. Storage at temperatures above 30°C should be avoided. Fatty acids are susceptible to gradual oxidation, some more so than others. This could result in darkening and/or it could have an adverse effect on the solubility of the product in organic solvents or on its compatibility with polymers. Accordingly, it is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first. Material will remain within product specification limits for a period of at least twelve months after shipment from Synthomer's production facilities, provided recommended storage conditions are observed. However, as neither the processing conditions for the product, nor the end use applications for which it is used can be anticipated and extreme conditions can affect the product quality, it is recommended that the material be tested upon receipt.