EASTMAN

Technical Data Sheet
Pamolyn™ 300 Fatty Acid

Applications
- Adhesives/sealants-b&c
- Commerical printing inks
- Paints & coatings
- Polymer modification
- Protective coatings

Key Attributes
- Excellent color stability
- Exceptionally low titer point
- High percentage of conjugated linoleic acid
- Highly reactive and fast-drying derivatives
- Low unsaponifiables
- Pale color

Product Description
Pamolyn™ 300 fatty acid is a conjugated linoleic acid and linoleic acid-rich blend derived wholly from a tall oil fatty acid source. The conjugated linoleic component is produced synthetically by an Eastman 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™ 300 fatty acid contains 38 to 42% conjugated diene fatty acids. Compared with natural linoleic acids of similar linoleic acid content, it is considerably more reactive. In the production of protective coating resins, it contributes fast bodying, and in applications of such coatings, the films have excellent surface and through dry. Uses include production of epoxy resin esters; modifiers of styrenated, vinylated, and methacrylated alkyds; chemical intermediates for reactions involving conjugated unsaturation; and applications wherever dehydrated castor oil and/or fatty acids are used.

Typical Properties

Property	Test Method	Typical Value, Units
General		
Acid Number		192.5
Fatty Acids		95 %
Rosin Acids		1.5 %
Unsaponifiables		2.6 %
Color, Gardner		3.5
Color		
after heat test	D 1981-61	4.5
Iodine Number	Wijs	156
Saponification Number		195
Titer		-28 °C
Specific Gravity		
@ 25°C		0.91 kg/L (7.55 lb/gal)
Fatty Acid Composition		
C16:0	GC	0.2 %
C18:0		0.1 %
C18:1		21.5 %
C18:2		74 %
C18:3		3.3 %
Conjugated Linoleic Acid	GC	39 %

Packaging
Tank cars: Aluminum, Kanigen- and resin-lined cars; Tank wagons and Drums: 55-gal (208-l), DOT-17E-type, nonreturnable lined steel drums. Net contents 410 lbs (186kg).

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 Eastman'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.

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