

Technical Data Sheet

Eastman Optifilm™ Enhancer 300

Applications

- Adhesives/sealants-b&c
- Architectural coatings
- Auto oem
- Auto refinish
- Coil coatings
- Commercial printing inks
- Exterior architectural coatings
- General industrial coatings
- Graphic arts
- Interior flat architectural coatings
- Interior non-flat architectural coatings
- Marine
- Paints & coatings
- Protective coatings
- Wood coatings

Key Attributes

- Excellent associative thickener efficiency
- Excellent wet and dry film properties
- Good solubility and compatibility with wide range of coatings systems
- Improves film formation over a wide range of temperature and relative humidity conditions
- LVP-VOC
- Low odor
- Non-HAP
- Non-SARA
- Not classified as a VOC per China State Environmental Protection Agency
- Not classified as a VOC per European Union Directive 2004/42/EC
- Not classified as a VOC per European Union Solvent Emissions Directive
- REACH compliant
- Readily biodegradable
- Recognized by China with "Green Label II" certificate (low toxicity, non-VOC and environmental friendly biodegradable product)

Product Description

In architectural coatings Eastman Optifilm™ enhancer 300 is an efficient, low odor, low toxicity coalescent for latex paints. Its broad compatibility, easy incorporation, and excellent hydrolytic stability allow its use in a wide range of latex types. Appropriate for many architectural applications, it is particularly suited for low odor flat and low sheen wall paints. The low odor performance of Eastman Optifilm™ 300 enhancer was evaluated in statistically designed experiments. The technical tip titled *Reduce Dispersion Paint Odour Using Eastman Optifilm™ enhancer 300* below outlines the procedure used and the evaluation results.

The use of Eastman Optifilm™ enhancer 300 reduces formulated cost by allowing substantial reductions in associative thickeners. Greater than 25% reduction in associative thickener levels can be obtained without compromising rheology characteristics. For more details see the technical tip, *Lower Coatings Costs With Texanol™ Ester Alcohol or Eastman Optifilm™ enhancer 300* below.

For industrial bake coatings, Eastman Optifilm™ enhancer 300 is an excellent retarder solvent, and is compatible with a variety of resin systems, making it useful over a wide range of application conditions and substrates. It compared favorably in tests versus a widely used retarder solvent in a polyester coil coating application. The results of this evaluation are discussed in the online technical tip entitled *Eastman Retarder Solvent and Eastman Optifilm™ enhancer 300 for Industrial Bake Coatings*.

With a boiling point of 281°C, (vapor pressure 0.0007 kPa @ 20°C), Eastman Optifilm™ enhancer 300 is not classified as a VOC according to European Union Decopaint Directive 2004/42/EC (commonly referred to as the Decopaint Directive); European Union Solvent Emissions Directive; and the China State Environmental Protection Agency. Due to its low toxicity and non-VOC status, Eastman Optifilm™ enhancer 300 has been awarded Green Label Type II certificate in China by the China Environmental United Certification Co. Ltd. (CEC), a wholly-owned subsidiary of the State Environmental Protection Administration of China (SEPA).

Typical Properties

Property	Typical Value, Units
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General	
Acidity as Isobutyric Acid	0.05 wt % max.
Appearance	Free from insoluble matter and haze
Assay	98.6 wt % min.
Autoignition Temperature	424 °C (795 °F)
Boiling Point @ 760 mm Hg	281 °C (537.8 °F)
Color Pt-Co	10 max.
Empirical Formula	C ₁₆ H ₃₀ O ₄
Evaporation Rate (n-butyl acetate = 1) @ 100°C	0.0004 0.674 (g/1000 cm ²)/h
Fire Point Cleveland Open Cup	152 °C (305 °F)
Flash Point Cleveland Open Cup	143 °C (290 °F)
Freezing Point	-70 °C (-94 °F)
Hydrolysis after 96 hr @ 98-99°C	0.003 %
Molecular Weight	286.4
Purity	98 wt % min.
Refractive Index	1.43 n(25°C/D)
Saponification Equivalent	144.8
Solubility in Water, @ 20°C	0.42 g/L
Specific Gravity @ 20°C/20°C	0.942-0.948
Surface Tension @ 25°C	27.56 dynes/cm
Vapor Pressure @ 25°C	4.4 X 10 ⁻⁹ mm Hg
Viscosity, Brookfield ^a @ 25°C	9 cP
Wt/Vol @ 20°C	0.94 kg/L (7.86 lb/gal)

^aNumber 1 spindle

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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