EASTMAN

Technical Data Sheet

Eastman™ PM Acetate

Applications

- Aerospace coatings
- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Automotive parts & accessories
- Commerical printing inks
- Furniture
- General industrial coatings
- Industrial cleaners
- Industrial maintenance
- Janitorial & household cleaners
- Marine
- Molding & trim interior
- Packaging inks non food contact
- Process solvents
- Protective coatings
- Road markings
- Solvents/stripping agents
- Truck/bus/rv
- Wood coatings

Key Attributes

- Excellent solvent activity
- Non-HAP
- Non-SARA
- Readily biodegradable
- Slow evaporation rate
- Urethane grade

Product Description

Eastman™ PM Acetate (Propylene Glycol Monomethyl Ether Acetate) is a slow evaporating solvent with both ether and ester functional groups. It is a colorless liquid with a mild odor. Eastman™ PM Acetate is an excellent solvent for many commonly used coating polymers, including cellulose acetate butyrate, nitrocellulose, epoxy resins, acrylic copolymers, and phenoxy resins. The combination of slow evaporation rate and good solvent activity makes Eastman™ PM acetate an effective retarder solvent for use in lacquers, thinners, and baking enamels. It is supplied as a urethane grade solvent.

Typical Properties

Property	Test Method	Typical Value, Units
General		
Acidity		
as Acetic Acid		0.02 wt % max.
Assay		99.0 wt % min.
Autoignition Temperature	D 2155	354 °C (670 °F)
Blush Resistance		
@ 80°F (26.7°C)		92 % RH
Boiling Point @ 760 mm Hg		
Dry Point		150 °C (302 °F)
Initial		140 °C (284 °F)
Color		
Pt-Co		10 max.
Critical Pressure		29.7 ATM
Critical Temperature		324.7 °C
Critical Volume		421 ml/g·mol
Dilution Ratio		

Toluene	2.6
VMP Naphtha	0.8
Electrical Resistance	5 Megohms
Empirical Formula	$C_6H_{12}O_3$
Evaporation Rate	
(ether = 1)	30.2
(n-butyl acetate = 1)	0.39
Expansion Coefficient, per °C	
@ 20°C	0.00089
Explosive Limits in Air	
Lower @ 78°C	1.3 Vol %
Upper @ 139°C	13.1 Vol %
Flash Point	
Setaflash Closed Cup	45 °C (114 °F)
Freezing Point	<-67 °C (<-89 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	4.8
Nonpolar	7.6
Polar	2.7
Total	9.4
Heat of Combustion	-752.6 kcal/g·mol
Heat of Vaporization	9414 cal/g·mol
Liquid Heat Capacity	
@ 27°C	56.42 cal/(g*mol)(°C)
Liquid Viscosity	
@ 25°C	1.1 cP (mPa·s)
Maximum Incremental Reactivity (MIR)	1.71
Molecular Weight	132.2
Nitrocellulose Solubility	Active
Refractive Index	
@ 20°C	1.4
Solubility	
in Water, @ 20°C	20 wt %
Water in, @ 20°C	5.9 wt %
Specific Gravity	
@ 20°C/20°C	0.97
Surface Tension	
@ 20°C	26.4 dynes/cm
Vapor Density	
(air = 1)	4.6
Vapor Pressure	
@ 20°C	2.8 mm Hg
@ 55°C	3 kPa
Wt/Vol	
@ 20°C	0.97 kg/L (8.06 lb/gal)

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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