

Technical Data Sheet

Eastman TMPD™ Glycol Platelets

Applications

- Auto refinish
- Intermediates
- Paints & coatings
- Plasticizer
- Process additives
- Wind energy

Key Attributes

- Allows the formulation of very stable waterborne polyesters
- Excellent chemical, stain, humidity, and corrosion resistance properties
- Ideal for formulating high-solids, low VOC coatings
- Low viscosity and density with excellent solubility in solvents
- Outstanding corrosion resistance in fiberglass-reinforced plastics

Product Description



IUPAC:2,2,4-Trimethyl-1,3-Pentanediol

Eastman TMPD™ glycol is used to formulate saturated polyester resins for liquid coatings and unsaturated polyester laminating resins. Markets for Eastman TMPD™ include metal office furniture, automotive, industrial maintenance, general metal, and fiberglass-reinforced plastics for composites. Eastman TMPD™ can be shipped in bags in white, waxy platelet form, cast solid form in drums, or in bulk molten form in tank trucks.

Contact us for more information, to request a sample, or to receive a copy of Eastman publication, Storage and Handling of Eastman TMPD™ Glycol Platelets.

Typical Properties

Property	Typical Value, Units
General	
Molecular Weight	146.22
Empirical Formula	C ₈ H ₁₈ O ₂
Appearance ^a	White, irregularly shaped platelets
Assay by Gas Chromatography	98.6 wt % min.
Water	0.25 wt % max.
Acidity	
as Butyric Acid	0.05 wt % max.
Color (Molten)	
Pt-Co Scale	15 max.
Melting Point	46-55 °C (114.8-131 °F)
Boiling Point @ 760 mm Hg	
95%	235 °C (455 °F)
Initial	220 °C (428 °F)
Density @ 21°C	
Granulated	0.688 g/mL (43 lb/ft ³)
Solid Cake	0.897 g/mL (56 lb/ft ³)
Specific Gravity	
@ 55°C/15°C	0.928
Flash Point	

Cleveland Open Cup	113 °C (235 °F)
Fire Point	
Cleveland Open Cup	118 °C (245 °F)
Autoignition Temperature	346 °C (655 °F)
Hygroscopicity at Equil.	
@ 25°C and 50% RH	0.1-0.2 wt % H ₂ O
Solubility @ 25°C in	
Ethyl Alcohol	75 wt %
Isopropyl Alcohol	80 wt %
Methyl Alcohol	75 wt %
Propylene Glycol	50 wt %
Water	1.9 wt %

^aFree of foreign matter.

Storage

Inside storage is recommended. Flaked, pelletized or pastillated forms of this product may remass under the following conditions:

- If stored near sources of heat
- Upon prolonged storage above 30 deg C (86 deg F)
- With pressure (e.g., stacking pallets two or more high)

Remassing has no influence on the physical properties of the finished product. However, it is strongly recommended that strict control of stored inventory be observed at all times, taking care that the oldest material is used first.

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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