



Technical Data Sheet Eastman™ HPHP Glycol Nuggets

Applications

- · Auto oem
- Auto refinish
- Automotive
- Coil coatings
- Coil coatings-appliances
- Paints & coatings
- · Process additives
- · Protective coatings

Key Attributes

- Excellent weathering
- Improved flexibility
- Improved resin solubility
- Lower resin melt viscosity
- Reduced resin crystallinity
- Reduced resin glass transition temperature

Product Description



IUPAC: 3-Hydroxy-2,2-Dimethylpropyl 3-Hydroxy-2,2-Dimethylpropanoate

Eastman[™] HPHP glycol, hydroxypivalyl hydroxypivalate, is a difunctional ester-glycol used for manufacturing polyester resins for the powder, coil, and automotive coatings market. HPHP is structurally similar to Eastman NPG[™] glycol so they share many of the same structure/property relationships.

Resins containing HPHP impart flexibility to coatings while maintaining weathering and the overall good balance of mechanical properties provided by NPG. Consequently, HPHP is an excellent choice for automotive primer surfacers with increased chip resistance and coil coatings that require a high degree of flexibility and exterior durability. In powder coatings, HPHP enhances the appearance of the coating film by improving flow and leveling during cure without compromising package stability.

Eastman™ HPHP is available in three forms:

- Cast solid in drums requiring a hot room or drum heater to melt the drum contents for removal.
- Free-flowing nuggets in bags that have good resistance to caking.
- Bulk molten shipped in tank trucks requiring a heated tank for storage.

Contact us for more information, to request a sample, or to receive a copy of Eastman publication, Storage and Handling of HPHP $Glycol^{TM}$.

Typical Properties

Typical Value, Units
204.27
$C_{10}H_{20}O_2$
White, irregularly shaped crystalline nuggets
10 max.
97.5 wt % min.
1 wt % max.
0.5 wt % max.
0.5 wt % max.
0.5 wt % max.
15.3-17.3 %

Solubility	
in Water	12.8 %
Melting Point	46-50 °C (114.8-122 °F)
Boiling Point	
@ 760 mm Hg	293 °C (495.4 °F)
Flash Point	
Cleveland Open Cup	161 °C (322 °F)
Specific Gravity	
@ 55°C/20°C	1.01

Storage

C - L - L - 114

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.

Eastman and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

4/3/2018 12:23:12 PM

© 2019 Eastman Chemical Company or its subsidiaries. All rights reserved. As used herein, ® denotes registered trademark status in the U.S. only.