



Shanghai Hongfenghe Material Technology Co., Ltd.

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TECHNICAL DATA SHEET

HPN-E02

Typical product information

TYPICAL PROPERTIES

GENERAL	
CAS No.	1115-20-4
Molecular Weight	204.27
Empirical Formula	C ₁₀ H ₂₀ O ₄
Appearance	White, irregularly shaped crystalline nuggets
TYPICAL PROPERTIES	
Color (Molten) - Pt-Co Scale	10 max.
Assay	99 wt % min.
Neopentyl Glycol	1 wt % max.
Aldehyde as Hydroxypivaldehyde	0.5 wt % max.
Water	0.5 wt % max.
Acidity - as Acetic Acid	0.5 wt % max.
Hydroxyl Content	15.3-17.3 %
Melting Point	51 °C (123.8 °F)
Boiling Point - at 760 mm Hg	292 °C (557.6 °F)
Flash Point - Cleveland Open Cup	161 °C (322 °F)
Specific Gravity - at 55 °C/20 °C	1.01

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 °C (86 °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.



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PRODUCT OVERVIEW

HPN-E02

Applications, attributes and product description

APPLICATIONS AND KEY ATTRIBUTES

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
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PRODUCT DESCRIPTION

IUPAC	3-Hydroxy-2,2-Dimethylpropyl 3-Hydroxy-2,2-Dimethylpropanoate
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HPN-E02 glycol, hydroxypivalyl hydroxypivalate, is a difunctional ester-glycol used for manufacturing polyester resins for the powder, coil, and automotive coatings market.

Resins containing HPN-E02 impart flexibility to coatings while maintaining weathering and the overall good balance of mechanical properties provided by NPG. Consequently, HPN-E02 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, HPN-E02 enhances the appearance of the coating film by improving flow and leveling during cure without compromising package stability.

HPN-E02 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.