

Technical Data Sheet

Eastman NPG™ 90

Applications

- Architectural coatings
- Auto refinish
- Automotive
- Building materials
- Coil coatings
- Intermediates
- Kitchen & bath
- Lubricants
- Metal coatings
- Paints & coatings
- Process additives
- Protective coatings
- Resins
- Truck/bus/rv
- Wind energy

Key Attributes

- Excellent thermal stability for low resin color
- Excellent weathering
- Good chemical and stain resistance
- Good chemical, stain, and humidity resistance
- Good hardness/flexibility balance
- Ideal glass transition temperature range
- Outstanding powder flow and fluidization characteristics
- Outstanding weathering
- Rapid reactivity during esterification and cure

Product Description

UPAC: 2,2-Dimethyl-1,3-Propanediol

Eastman NPG is the industry standard glycol component in high-quality polyester resins for industrial coatings and fiberglass-reinforced plastics applications. Most polyester resin formulations contain NPG as the sole glycol component, or it is used in conjunction with a modifying glycol to achieve desired properties.

NPG and Eastman PTA (Purified Terephthalic Acid) are the primary components for polyester powder coating resins. Eastman NPG delivers the overall toughness, stain and detergent resistance, and outdoor weathering performance required of coil coatings for appliances and products for exterior applications. Gel coats containing unsaturated polyesters made from NPG and Eastman PIA (Purified Isophthalic Acid) provide excellent weatherability and water and stain resistance.

Eastman NPG is also used in polyester polyols for polyurethane coatings for the automotive, industrial maintenance, transportation, and aerospace markets.

In the United States, neopentyl glycol may be lawfully used as a reactant for coatings and other products intended for use in contact with foods under specific federal food additive regulations.

Eastman NPG glycol is available in three forms:

- Platelets in bags that exhibit excellent caking stability on storage.
- Bulk molten shipped in tank trucks that require a heated tank for storage.
- Eastman NPG 90 glycol, a liquid at or above 38°C containing 90 parts NPG and 10 parts water, is delivered in bulk and can be stored at a much lower temperature than molten NPG.

Typical Properties

Property	Typical Value, Units
General	
Assay (Dry Basis)	99.0 wt % min.
Water	9.5-10.5 wt %
Specific Gravity @ 60°C	0.94
Appearance	

@ 150°C (302°F)	Liquid
@ 25°C (77°F)	Slurry
@ 38°C (100°F)	Liquid
Boiling Point	100-121 °C (212-250 °F)
Crystallization Point	31 °C (88 °F)
Color (50% Aqueous Solution), Pt-Co Scale	15 max.
Wt/Vol	9.82 lb/gal (Imperial)
Flash Point	
Tag Closed Cup	132 °C (270 °F)
Effects on Metals ^a	No corrosive effect on mild steel or tin plate.

^aSlightly corrosive to aluminum.

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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