

UNIPLEX 512
NEOPENTYL GLYCOL DIBENZOATE
CAS NO. 4196-89-8

Uniplex 512 is a low melting (49°C) waxy solid plasticizer. The product is used predominately as thermoplastic processing aid. These uses include:

- Incorporation in polycarbonate or talc-filled polypropylene to improve injection molding by cycle-time reduction.
- Incorporation in rigid vinyl compounds as an extrusion aid.
- Incorporation in thermoplastic polyesters (e.g. PBT, PCT, PET) to aid crystal growth during nucleation.

Uniplex 512 is an effective plasticizer for coatings application, particularly in acrylic-based coatings where excellent ultraviolet light stability is required.

SPECIFICATIONS:

Assay (Benzoate Esters), %	98.0 minimum
Acidity (as Benzoic Acid), %	0.1 maximum
Color, Pt-Co Units (20% in 1/1 Acetone/Xylene)	100 maximum
Hydroxyl Number, mg KOH/g	8.0 maximum
Water Content, %	0.1 maximum

TYPICAL PROPERTIES:

Appearance	Waxy, white solid
Molecular Weight	312
Melting Point, °C	49
Refractive Index (Molten at 50°C)	1.530
Specific Gravity (solid at 30°C)	1.215
Flash Point, COC	424°F

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$$\text{Vapor Pressure} \quad \text{Log Vapor Pressure} = \frac{-4312.97}{\text{Temp (Kelvin)}} + 9.4247$$

(mm Hg)

Latent Heat of Fusing 17.2 cal/g
 Specific Heat 0.4

OTHER

Uniplex 512 is listed for food packaging adhesives in 21 CFR 175.105.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. Suggestions for uses of our products should not be understood as recommendations that they be used in violation of any patents.

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