

**UNIPLEX 400**  
**(POLYPROPYLENE GLYCOL DIBENZOATE)**  
**CAS NO. 72245-46-6**

Uniplex 400 is a low volatility, moderately solvating plasticizer. The Uniplex 400 plasticizer is an efficient, cost/performance alternative to higher alkyl benzyl phthalate plasticizers.

Uniplex 400 is particularly useful in premium sealant applications. The low volatility characteristics are of particular interest to formulators of polysulfide and poly urethane sealants.

Uniplex 400 is also useful in aqueous emulsion systems such as caulks and polyvinyl acetate adhesives. Uniplex 400 may be used to formulate adhesives that need to provide good adhesion between porous and polyolefin surfaces. In caulk formulations, the same excellent performance of other benzoate plasticizers can be expected in addition to providing lower volatility.

Uniplex 400 is an excellent plasticizer for acrylic coatings and acrylic foam coatings. Uniplex 400 in acrylic foam is more effective than higher alkyl benzyl phthalates and tends to volatilize less than those low volatility type phthalates.

COMPATIBILITIES

Uniplex 400 is compatible with the following polymers or polymer types (the list is not all inclusive):

Polyvinyl Acetate Ethylene/Vinyl Acetates  
Polyurethane Polysulfides  
Polyvinyl chloride Ethylene/Polyvinyl chloride  
Nitrocellulose Acrylates  
Polystyrene Vinyl acrylates

SPECIFICATIONS

Appearance	Clear, light yellow liquid, free of suspended matter
Odor	Characteristic
Total Esters, G.C.	98% minimum (as Benzoate esters)
Acidity (as Benzoic Acid)	0.1% maximum
Color, APHA	250 maximum
Water Content, Karl Fischer	0.1% maximum
Hydroxyl Number, mg KOH/g	15 maximum

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## TYPICAL PROPERTIES

Molecular Weight, Minimum Average	400
Refractive Index, 25°C	1.5150 - 1.5200
Viscosity, 25°C	120 - 180 cps
Specific Gravity, 25/25°C	1.100 - 1.108
Density, 25°C	9.2 lb./gal.
Boiling Point @ 5mm Hg	262°C
Flash Point, COC	465°F (241°C)
Pour Point	-15°C
Freeze Point (Glass)	-38°C

## HANDLING INFORMATION

Refer to Material Safety Data Sheet Handling Information.

*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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