

# Laromer® UA 9048

## General

Laromer® UA 9048 is an aliphatic urethane acrylate, diluted with 25% DPGDA used for the formulations of UV/EB curable coatings onto wood, paper and plastic substrates. This product exhibits a very high scratch, abrasion and chemical resistance.

## Key features & benefits

solvent free  
low viscosity  
combination of isocyanurate and allophanate structures  
high weather resistance

## Chemical nature

aliphatic urethane acrylate, 75% solution in DPGDA

## Properties

### Appearance

clear, high-viscous liquid

### Typical characteristics

*(should not be interpreted as specifications)*

viscosity at 23°C	10~20 Pa·s
iodine color number	≤ 2
density at 20°C	1.16 g/mL

## Application

### solubility, compatibility

To reduce viscosity Laromer® UA 9048 can be diluted with all organic solvents common in the coatings industry with the exception of aliphatic hydrocarbons. Furthermore Laromer® UA 9048 is compatible with acrylic and methacrylic monomers (e.g. HDDA, TPGDA, HEMA, HPMA) serving as reactive thinners or other types of UV-resins like polyether-, polyester-, epoxy- or urethane acrylates.

### fields of application

Laromer® UA 9048 is a solvent-free urethane acrylate diluted in DPGDA. It is mainly used for wood and plastic coatings. Its high acrylic functionality (it contains octa-functional fractions) is reflected by very good resistance to chemicals and shows excellent scratch resistance.

A suitable photoinitiator must be used to photocure Laromer® UA 9048. The photoinitiator types include, for example,  $\alpha$ -hydroxy ketone, benzophenone, acyl phosphine oxide, and blends thereof, for typical coating applications. The amount of photoinitiator varies between 2%~5% based on Laromer® UA 9048 as delivered. Acyl phosphine oxide types (MAPO, MAPO-Liquid and BAPO) of photoinitiators are recommended for film thicknesses of 50 g/cm<sup>2</sup> to ensure through curing.

## Storage

Product ought to be kept within sealed unopened containers. Containers should be stored below 35 °C and away from sunlight.

For further detailed application information please contact our Technical Support Department.

### Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

### Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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### BASF East Asia Regional Headquarters Ltd.

45th Floor, Jardine House, No. 1 Connaught Place, Central, Hong Kong