

Printing & Packaging

Industrial Coatings

Technical Data Sheet

Laromer® PO 43F



We create chemistry

Product Description

Low viscosity polyether acrylate resin for energy curable inks and overprint varnishes

Laromer® PO 43F has a very balanced property profile, which can be used as a sole binder for a variety of applications. It can be used as a reactive diluent for high viscosity polyester acrylates, urethane acrylates, and epoxy acrylates. It is compatible with mono-functional, di-functional, and tri-functional acrylate monomers.

Key Features & Benefits

- Good adhesion
- Low viscosity
- Good resistance to chemicals

Chemical Structure

Modified polyether acrylate

Properties

Typical Properties

Appearance	slightly yellow liquid
Odor	Ester-like
Solids	100 %
Viscosity	~ 200 – 400 cps
Density at 25 °C	1.1 g/cm ³
Acid value	< 0.05 mg KOH/g
Iodine color number	≤10

Solubility, diluent tolerance

Soluble in all common paint solvents except for aliphatic hydrocarbons.

For the formulation of low viscosity inks or coatings, it can be diluted with monomers such as Laromer® HDDA, Laromer® TMPTA, Laromer® DPGDA, and Laromer® TPGDA or with esters, ketones, and aromatic hydrocarbons.

Compatibility

Can be homogeneously mixed with most unsaturated acrylate oligomers such as other Laromer® grades.

These typical values should not be interpreted as specifications.

Applications

Laromer® PO 43F is recommended for use in energy curable flexo, screen, and offset inks and overprint varnishes. It can also be used as an alternative to monomers, allowing the formulation of monomer-free inks and overprint varnishes. In addition to chemical resistance, cured inks and overprint varnishes provide good surface hardness in combination with Irgacure® TPO, Irgacure® TPO-L, Irgacure® 819, Irgacure® 2022, Irgacure® 2100, Irgacure® 127, Irgacure® LEX 201.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet Laromer® PO 43F.

Storage

To prevent premature polymerization, Laromer® PO 43F must be stored under air (not under inert gases) and in the dark away from direct light. Storage containers and pipes should be made of stainless steel, aluminum, or glass. For smaller quantities, polyethylene containers can be used.

Important

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/use, BASF recommends that the ready make tests to determine the suitability of a product for a particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF THE BASF TERMS AND CONDITIONS OF SALE.** Further, the descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the description, designs, data or information given or results obtained all such being given and accepted at the reader's risk.

Laromer and Irgacure are registered trademarks of BASF Group.

© BASF Corporation, 2015



BASF Corporation is fully committed to the Responsible Care® initiative in the USA, Canada, and Mexico.

For more information on Responsible Care® go to:

U.S.: www.basf.us/responsiblecare_usa

Canada: www.basf.us/responsiblecare_canada

México: www.basf.us/responsiblecare_mexico

U.S & Canada

BASF Corporation
24710 W Eleven Mile Road
Southfield, MI 48033
ph: 1(800) 231-7868
fax: 1(800) 392-7429
Email: Custserv_charlotte@basf.com
Email: edtech_info@basf.com
www.basf.us/dpsolutions

Mexico

BASF Mexicana, S.A. de C.V.
Av. Insurgentes Sur # 975
Col. Ciudad de los Deportes
C.P. 03710
Mexico, D.F.
Phone: (52-55) 5325-2756
Fax: (52-55) 5723-3011