



Kalama® VITROFLEX® B Product Description

VITROFLEX B is a unique blend of dibenzoates specially tailored for the polysulfide market. This benzoate plasticizer is useful particularly in the B-side component of 2K polysulfide sealants. VITROFLEX B imparts good rheology for suspension stability of dispersed solids, elasticity, fast cure rates, and hardness development.

Other uses where VITROFLEX B may be useful include plastisol applications, such as plastisol inks, underbody coatings, and seam seals.

Specifications

Color, maximum, Gardner	2
Acidity, acid no. max	
Hydroxyl Number, mg NaOH/g sample, max	
Viscosity, Brookfield RVT, 20 RPMs at 25°C, cps and mPa·s	730-930
Typical Properties	
Acidity, acid no	0.8
Boiling point, 5 mmHg, °C	206
Boiling point, extrapolated to 760 mm Hg, °C	322
Color, Gardner	0
Density, ASTM D1475, 25°C, g/mL	1.15
Density, ASTM D1475, 25°C, lbs/gal	9.63
Flash point, ASTM D92, °C	232
Freeze point, °C	<-20
Glass point, by DSC, °C	50
Hydroxyl Number (mg NaOH/g)	25
Moisture content, %	0.06
Refractive index, 25°C	1.505
Solubility, in water, %	1.13
Solubility, water in, %	0.08
Surface tension, ASTM D1331, 25°C, dynes/cm	33
Specific gravity, 25/25°C	1.15
Vapor pressure, 25°C (extrapolated), mmHg	4.6 x 10 ⁻⁶
Viscosity, Brookfield RVT, 20 RPMs at 25°C, cps and mPa·s	834
Viscosity, kinematic, 25°C, cSt	
VOC. ASTM D2369. %	1.1



Kalama® VITROFLEX® B Plasticizer TECHNICAL DATA SHEET

Regulatory Information

Global Inventories:

Kalama® VITROFLEX® and K-FLEX® plasticisers are included on or exempted from many global inventories. Please reference the product safety data sheet (SDS) for current global inventory status and other regulatory information. Current SDS's can be found on our website at www.emeraldkalama.com or can be requested from product.compliance@emeraldmaterials.com.

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Emerald Kalama Chemical is a world-scale producer of a variety of benzoic acid, benzaldehyde, and derivatives, with production facilities in the U.S. and Europe. Products include benzoic acid, various benzoate and dibenzoate ester, alcohol and aldehyde derivatives for food and personal care preservatives, flavor and fragrance ingredients, plasticizers and industrial applications. Emerald Kalama Chemical is a division of Emerald Performance Materials, a manufacturer of additives and polymers that make products last longer, look, taste, smell, or perform better. The company has two business units, three operations and approximately 500 employees. For more information, please contact us.

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Revision Record Data	
Date	Description of change
19-07-2019	Updated logo, trademark to Kalama® VITROFLEX®, formatting, website URL, and sales office contact information; changed spellings to UK English
23-06-2021	Updated logo, boilerplate, formatting, website URL, and sales office contact information; changed spellings to US English
25-06-2021	Changed "FDA Coverage" to "FDA CFR Listings"
15-7-2021	Removed FDA Listings (as per July 2021 discussion w/Robert Campbell)

Emerald Kalama Chemical is a world-scale producer of a variety of benzoic acid, benzaldehyde, and derivatives, with production facilities in the U.S. and Europe. Products include benzoic acid, various benzoate and dibenzoate ester, alcohol and aldehyde derivatives for food and personal care preservatives, flavor and fragrance ingredients, plasticizers and industrial applications. Emerald Kalama Chemical is a division of Emerald Performance Materials, a manufacturer of additives and polymers that make products last longer, look, taste, smell, or perform better. The company has two business units, three operations and approximately 500 employees. For more information, please contact us.

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