

QUALITY PERFORMS.

QUALITY WORKS.

LANXESS
Energizing Chemistry

Kalama® VITROFLEX® Plasticizers for Polysulfide Sealants

Kalama® VITROFLEX® Plasticizers have been expressly designed for polysulfide sealants, offering a non-phthalate alternative with excellent HS&E profiles, performance characteristics, compatibility, and value for this application.

Tailored Performance for Polysulfides

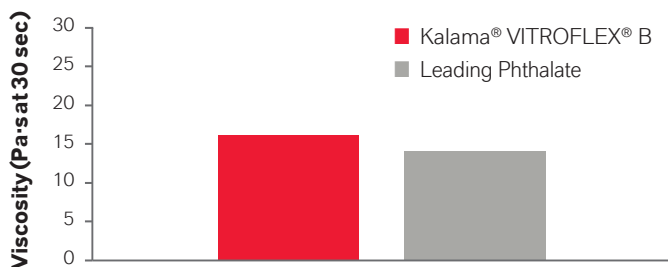
Polysulfide sealants provide high elasticity, adhesion, solvent resistance, and weathering resistance, which are valuable characteristics in end uses such as insulated glass seals, construction, transportation, and secondary containment. They can be formulated to pass the most stringent performance requirements.

LANXESS offers solutions for both the “A” (polymer) and “B” (catalyst) sides of two-part polysulfide sealants. These products are manufactured in Europe, offering an excellent supply chain to serve EMEA customers.

Kalama® VITROFLEX® benzoate plasticizers have excellent safety and regulatory profiles for polysulfides. They enable formulators to eliminate plasticizers facing increasing scrutiny and regulatory pressure, such as benzyl phthalate and chlorinated paraffins, without sacrificing on performance.

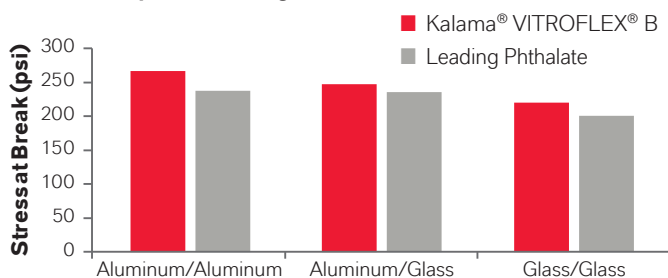
VITROFLEX®

Viscosity Stability Equivalent to Phthalates



Both components of a polysulfide system must have similar viscosities for even mixing. The B-sides of polysulfide sealants with Kalama® VITROFLEX® B exhibit excellent viscosity stability and no signs of settling.

Increased Lap Shear Strength



Replacing a phthalate with Kalama® VITROFLEX® B resulted in cohesive failure and improved lap shear stress at break, demonstrating good adhesion to substrates such as aluminum and glass.

Kalama® VITROFLEX® A-Side Plasticizers

Kalama® VITROFLEX® A90

Kalama VITROFLEX A90 is tailored for the polymer side of polysulfide sealants, where it provides exceptional permanence and low migration. These properties are critical to ensure low fogging in insulated glass, the largest application for polysulfide sealants.

Kalama® VITROFLEX® A99

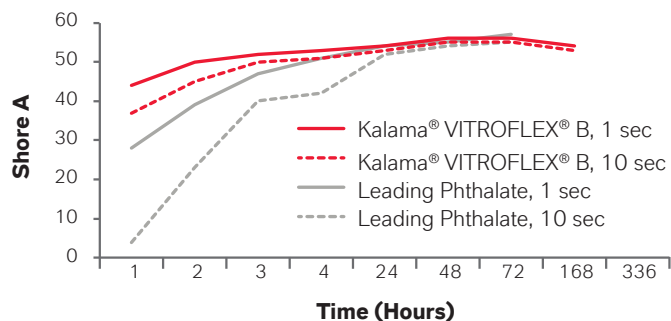
Kalama VITROFLEX A99 is a high-value offering for the polymer side of polysulfide sealants. It offers similar benefits to VITROFLEX A90, but also maximizes purity to meet the highest performance requirements, such as exceptionally low odor.

Kalama® VITROFLEX® B-Side Plasticizer

Kalama® VITROFLEX® B

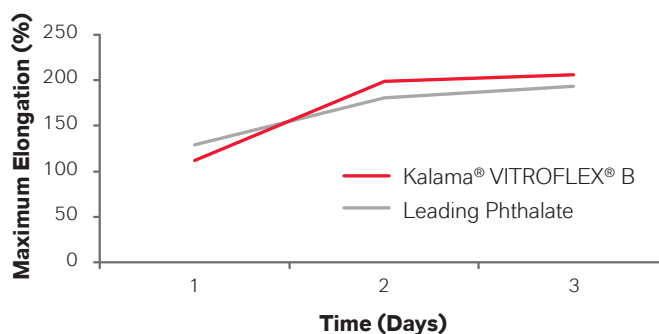
Kalama VITROFLEX B enables formulators to achieve desirable characteristics in the catalyst side of polysulfide sealants. These include: faster hardness development, improved lap shear strength, excellent flexibility and adhesion, non-settling (excellent viscosity stabilization), and equivalent pot life to other common plasticizers.

Faster Hardness Development



Kalama® VITROFLEX® B plasticizer contributes to faster cure rates in B-side polysulfide formulations.

Excellent Flexibility (ASTM D412 Elongation Method)



B-side polysulfide formulations with Kalama® VITROFLEX® B plasticizer maintain excellent adhesion while providing flexibility for tailored performance in insulated window sealant applications.

LANXESS

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