

QUALITY PERFORMS.

QUALITY WORKS.

LANXESS
Energizing Chemistry

K-FLEX® Dibenzoate Plasticizers for Caulks and Sealants

K-FLEX® dibenzoates are high performing plasticizers for latex caulk and elastomeric sealant applications, allowing formulators to avoid the health and regulatory concerns of materials such as butyl benzyl phthalate and diisodecyl phthalate while achieving a superior balance of performance and value to other alternative chemistries.

K-FLEX® dibenzoate plasticizers offer a range of excellent solutions for formulators looking to satisfy both legislative requirements and consumer demand. In addition to excellent performance, benzoate chemistries have favorable HSE profiles: **non-phthalate, low-VOC, global registrations, and REACH compliant.**



Next Generation Products

Dibenzoates are general purpose plasticizers for latex caulks and elastomeric sealants. Their polar nature results in **excellent compatibility with the polymers commonly used in sealants**, such as polyvinyl acetate homopolymers and copolymers, acrylic homopolymers and copolymers, and silyl-terminated polyurethanes and polyethers. Compatibility is critical for providing key performance characteristics.

Demand for greener, safer materials is a major driver impacting the caulks and sealants industry, but the materials used must also function as needed and provide value. To meet industry needs, LANXESS developed **K-FLEX® 975P**, which is tailored to optimize the **balance of handling, performance, and cost-effectiveness.**

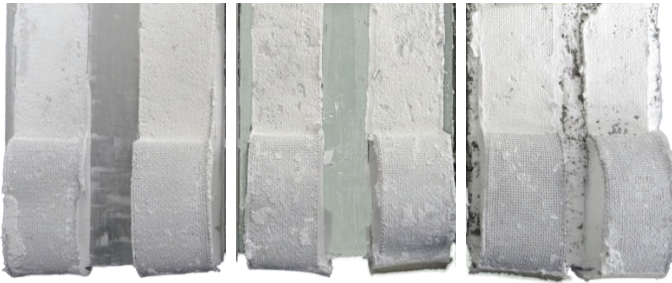
Due to their high compatibility, **K-FLEX®** dibenzoate plasticizers provide **excellent viscosity response and elastomeric and adhesion characteristics**, desirable properties in formulating a latex caulk or elastomeric sealant to pass ASTM C834 or ASTM C920 specifications testing.

Dry Adhesion-in-Peel

Generic Caulk
K-FLEX® 975P
Aluminum
Dry Peel

Generic Caulk
K-FLEX® 975P
Glass
Dry Peel

Generic Caulk
K-FLEX® 975P
Mortar
Dry Peel



K-FLEX® 975P provided excellent adhesion-in-peel when tested in an ASTM C920 latex caulk over aluminum, glass, and mortar substrates.

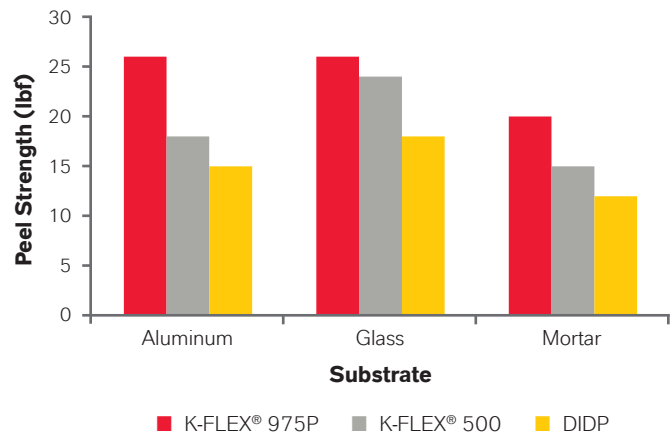
Recommended Products for Caulks and Sealants

K-FLEX® 975P Created to offer a broad range of compatibility with polar polymers, with improved handling due to its lower freeze point. Excellent choice for plastisol sealants, waterbased latex caulks, and silyl-terminated sealants.

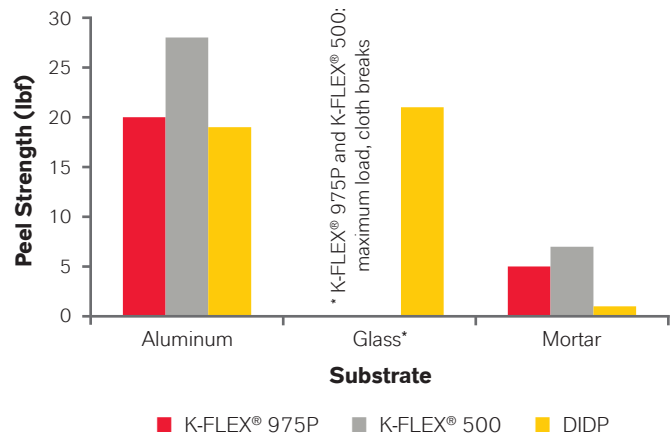
K-FLEX® 850P Economical dibenzoate plasticizer designed for vinyl and waterborne latex applications. Excellent choice for latex caulk, plastisol/vinyl sealants, and silyl-terminated sealants.

K-FLEX® 500 A classic blend of traditional dibenzoate plasticizers that offers a balance of performance and economy. Excellent choice for use in hot melt adhesives and silyl-terminated sealants.

Dry Adhesion-in-Peel



Wet Adhesion-in-Peel



K-FLEX® 975P and K-FLEX® 500 demonstrated excellent adhesion-in-peel performance in a silyl terminated polyether sealant formulation in contrast to DIDP, a commercial phthalate.

LANXESS
Energizing Chemistry

Customer Service – Americas

Vancouver, Washington, USA
800.223.0035 | +1.360.673.2550
kflex@emeraldmaterials.com

Customer Service – EMEA

Rotterdam, The Netherlands
+31.46.702.2911
kflex.emea@emeraldmaterials.com

Customer Service – Asia Pacific

Hong Kong
+852.35268836

www.lanxess.com
us.info@lanxess.com

©2022 LANXESS. K-FLEX, LANXESS and the LANXESS Logo are trademarks of LANXESS Deutschland GmbH or its affiliates. All trademarks are registered in many countries in the world.
Rev. April, 2022