

Plasticizers

Evonik product portfolio



C4-CHEMICALS FROM EVONIK: CHEMISTRY4PEOPLE®

PLASTICIZERS FROM EVONIK

Plasticizers from Evonik offer manufacturers of flexible PVC and their products flexibility, safety and above-average technical performance with a consistently high level of quality.

Plasticizers act like a molecular lubricant: The molecules sandwich themselves between the polymer chains of PVC. This makes the originally tightly-packed, rigid structure flexible, allowing the chains to slide past each other.

WE OFFER OUR CUSTOMERS

Maximum delivery reliability

- Verbund production ensures optimal supply
- As a major producer of oxo alcohols continuous production of high-quality plasticizers

A full service from a single source

- Needs-based support from order to delivery
- Support from a well-established team with technical and regulatory knowledge
- Information about new developments

A strong commitment to regulatory issues

- Membership and active participation in several industry associations of the flexible PVC value chain
- Involvement in the public debate surrounding regulatory topics
- Active support of a science-based assessment of chemicals

CONTENTS



VESTINOL® 9 (DINP) is a very effective standard plasticizer for a wide range of flexible PVC applications with the best cost-performance ratio and a very balanced property profile.

[Learn more](#)



ELATUR® CH (DINCH) is a modern, low-viscosity plasticizer with excellent cold flexibility and very good migration properties especially suitable for sensitive applications.

[Learn more](#)



ELATUR® DINCD is an innovative low-viscosity plasticizer with excellent cold flexibility and very low volatility especially suitable for demanding applications.

[Learn more](#)



ELATUR® DPT is a fast fusing, low-viscosity plasticizer with very low SVOC content and high gelation power preferably used for manufacturing of PVC plastisols.

[Learn more](#)



ELATUR® TM is a specialty plasticizer with an excellent migration profile and very low volatility especially suitable for applications where low emissions are needed.

[Learn more](#)

Plasticizers from Evonik ↗

VESTINOL® 9

Efficiency. The allrounder sets the benchmark.

VESTINOL® 9 (DINP) is a very effective standard plasticizer for a wide range of flexible PVC applications with the best cost-performance ratio and a very balanced property profile.

VESTINOL® 9 (DINP)

APPLICATIONS

- Plasticizer for PVC
- Adhesives & Sealants
- Coatings & Paints

SPECIAL OFFERINGS

- Plastisol ready-for-use grade
VESTINOL® 9 cool available
- Life-cycle assessment data available

PERFORMANCE AT A GLANCE

- Excellent plasticizing efficiency
- Very good viscosity and aging profile
- High gelation and fusion speed
- Excellent cold flexibility and outdoor stability
- Very good migration properties

FAST GELATION

OUTDOOR STABILITY

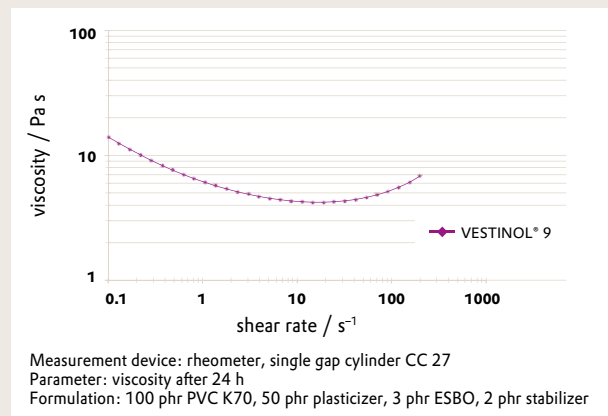
LOW VOLATILITY

HIGH EFFICIENCY

PROCESSING PERFORMANCE

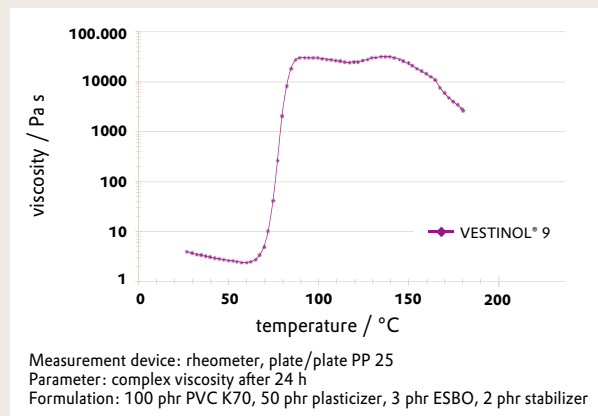
VISCOSITY

Plastisols with VESTINOL® 9 show a very good viscosity profile.



GELATION

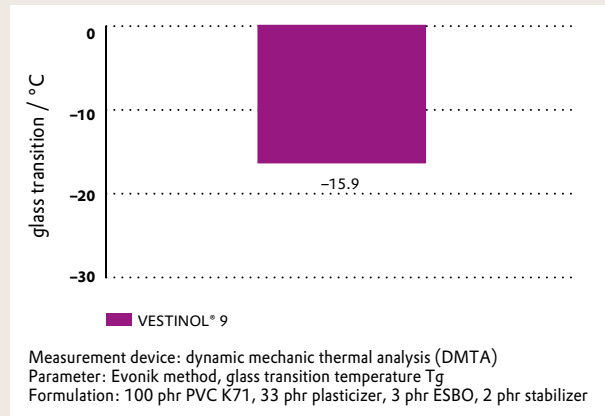
VESTINOL® 9 offers a high fusion speed.



TECHNICAL PERFORMANCE

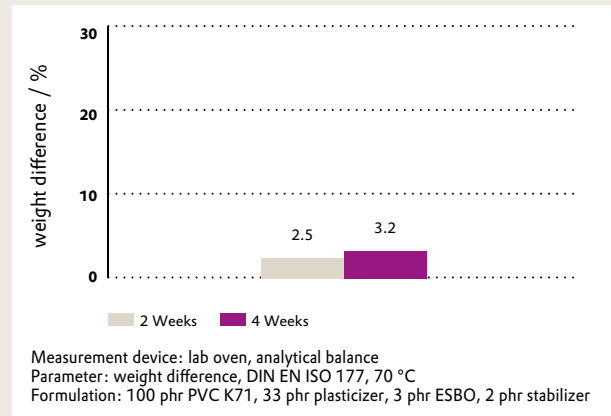
COLD FLEXIBILITY

Products with VESTINOL® 9 show excellent low temperature flexibility.



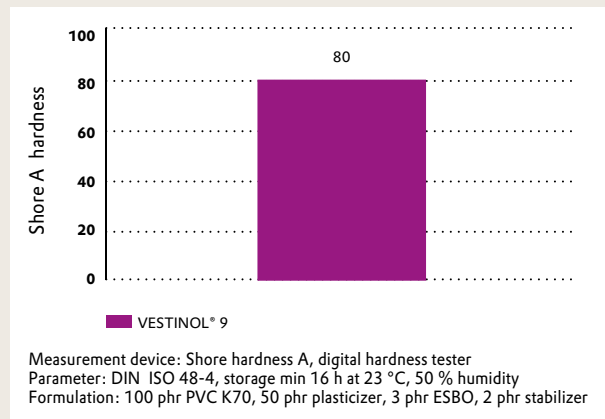
MIGRATION INTO PVC-U

VESTINOL® 9 shows a very low migration tendency into rigid PVC.



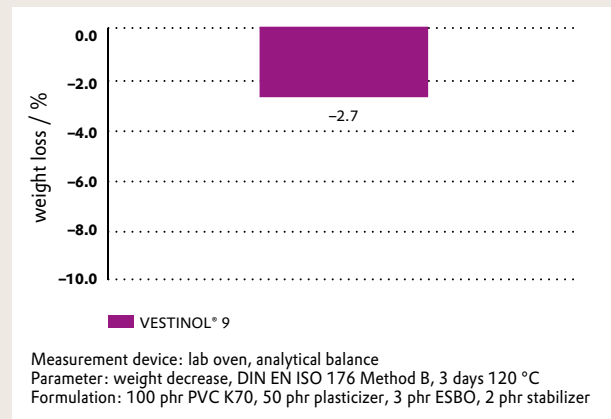
EFFICIENCY

VESTINOL® 9 is a highly efficient plasticizer.



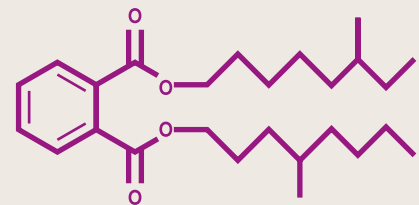
VOLATILITY

Products with VESTINOL® 9 exhibit low emission.



REGULATORY SNAPSHOT

- Excellent safety profile
- Further information in our [regulatory onepager](#)



di-isononyl phthalate (DINP)

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Oxeno GmbH & Co. KG

Paul-Baumann-Straße 1
45772 Marl, Germany

C4-chemicals@evonik.com
www.evonik.com/c4-chemicals

ELATUR® CH

Flexibility. The purpose defines the choice.

ELATUR® CH (DINCH) is a modern, low-viscosity plasticizer with excellent cold flexibility and very good migration properties especially suitable for sensitive applications.

ELATUR® CH (DINCH)

APPLICATIONS

- Plasticizer for PVC
- Adhesives & Sealants
- Coatings & Paints

SPECIAL OFFERINGS

- Special packaging available
- Life-cycle assessment data available

PERFORMANCE AT A GLANCE

- Excellent low viscosity and aging
- Very good migration properties
- Excellent cold flexibility
- High UV stability

LOW VISCOSITY

GOOD COLD FLEXIBILITY

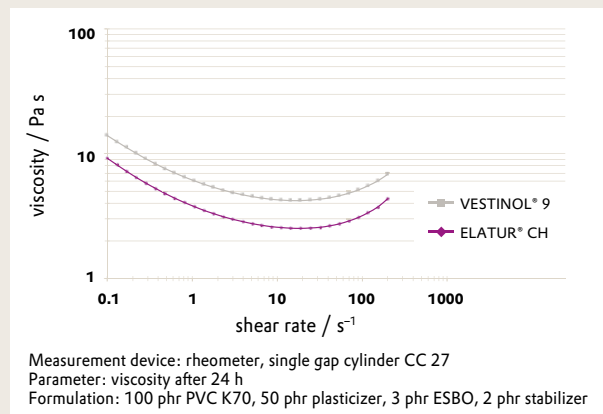
APPLICABLE FOR
MEDICAL DEVICES

LOW MIGRATION

PROCESSING PERFORMANCE

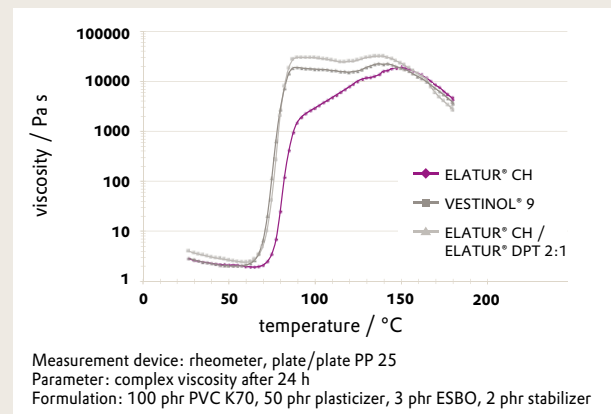
VISCOSITY

Plastisols with ELATUR® CH show excellent processing viscosity.



GELATION

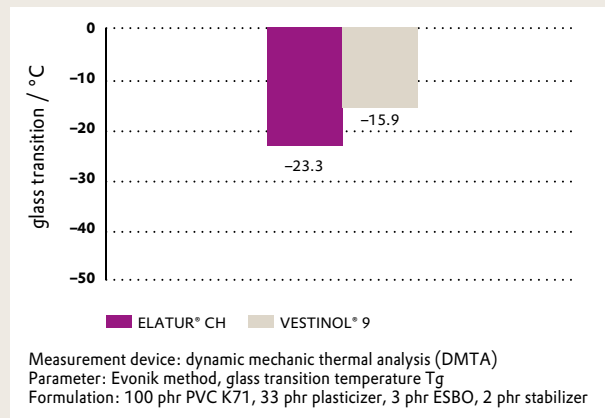
ELATUR® CH exhibits sufficient fusion speed, which can be increased with ELATUR® DPT.



TECHNICAL PERFORMANCE

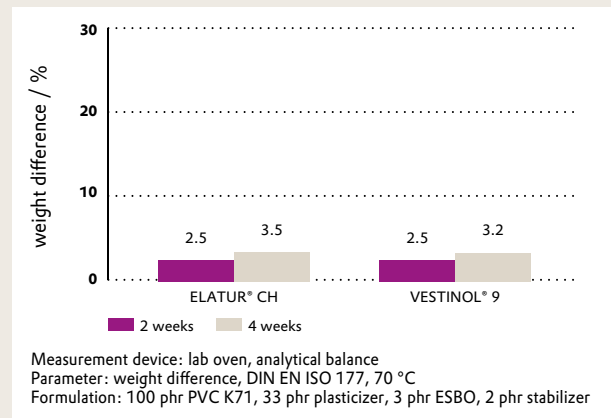
COLD FLEXIBILITY

Products with ELATUR® CH show outstanding low temperature flexibility.



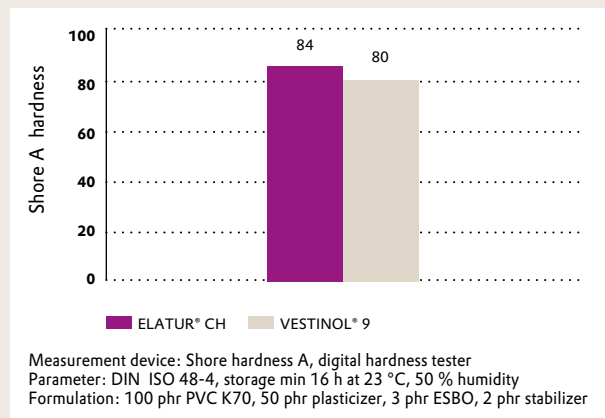
MIGRATION INTO PVC-U

ELATUR® CH shows a very low migration tendency into rigid PVC.



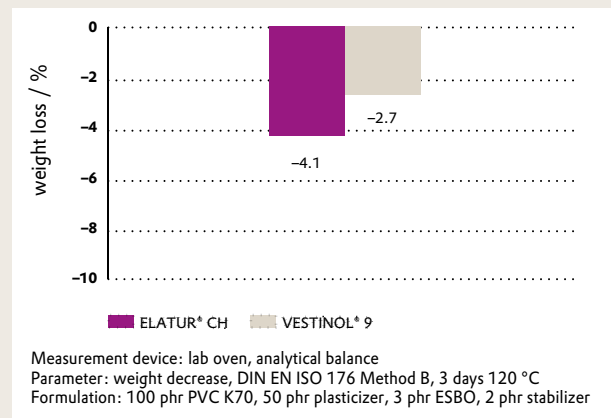
EFFICIENCY

Products with ELATUR® CH show very good plasticizing efficiency.



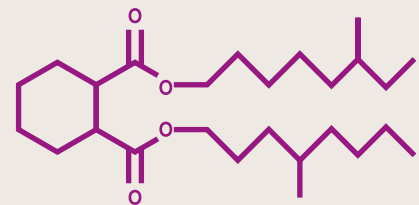
VOLATILITY

ELATUR® CH exhibits a good emission profile.



REGULATORY SNAPSHOT

- Excellent safety profile
- included in European Pharmacopoeia of the European Directorate for the Quality of Medicines & HealthCare (EDQM)



di-isononyl cyclohexanoate (DINCH)

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Oxeno GmbH & Co. KG

Paul-Baumann-Straße 1
 45772 Marl, Germany

C4-chemicals@evonik.com
 www.evonik.com/c4-chemicals

ELATUR® DPT

Speed. The power makes the difference.

ELATUR® DPT is a fast fusing, low-viscosity plasticizer with very good emission profile and high gelation power preferably used for manufacturing of PVC plastisols.



APPLICATIONS

- Plasticizer for PVC
- Adhesives & Sealants
- Coatings & Paints

SPECIAL OFFERINGS

- Special packaging available
- Life-cycle assessment data available

PERFORMANCE AT A GLANCE

- Outstanding gelation power and efficiency
- Excellent cold storage properties
- Low viscosity and aging
- High plasticizing efficiency
- Very low SVOC (semi-volatile organic compounds) content

LOW VOLATILITY

GELATION POWER

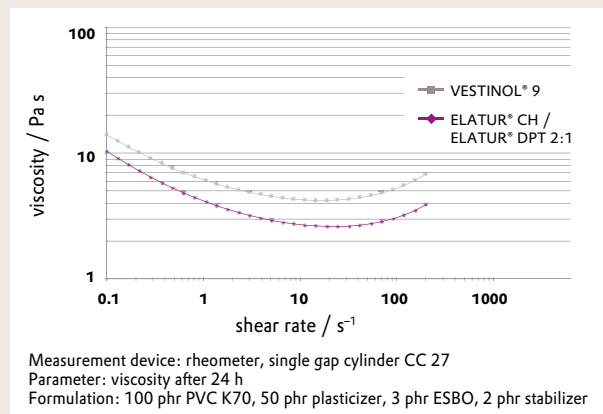
LOW VISCOSITY

COLD STORAGE

PROCESSING PERFORMANCE

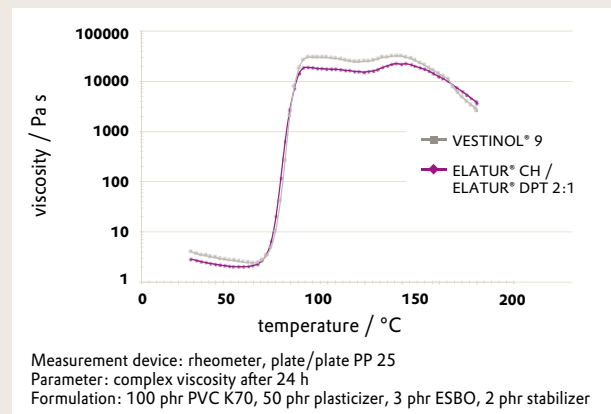
VISCOSITY

Plastisols with ELATUR® DPT exhibit low viscosity.



GELATION

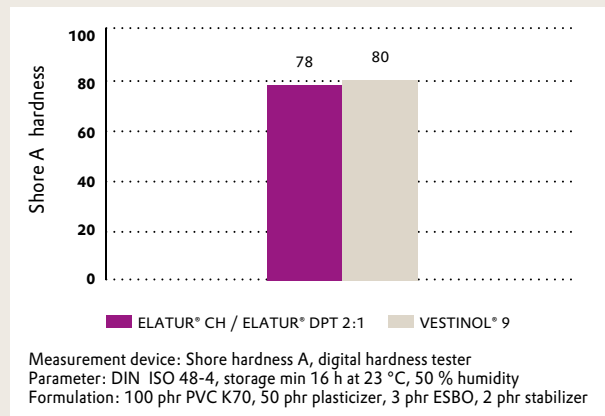
ELATUR® DPT offers a high gelation power, strongly accelerating general purpose plasticizers.



TECHNICAL PERFORMANCE

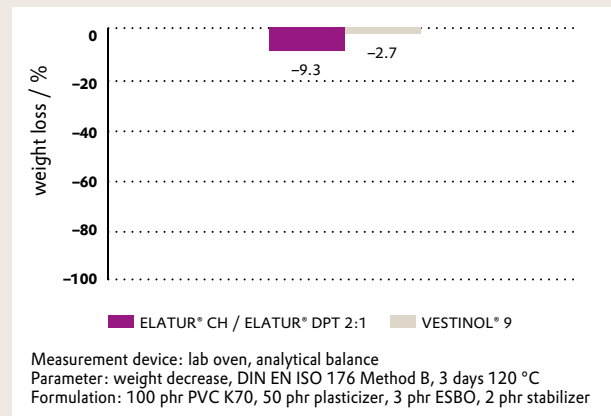
EFFICIENCY

ELATUR® DPT exhibits a very high plasticizing efficiency.



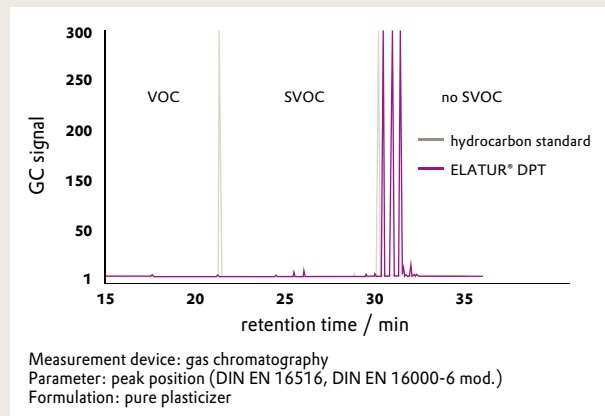
VOLATILITY

ELATUR® DPT is a fast fuser with a balanced emission profile and low SVOC content.



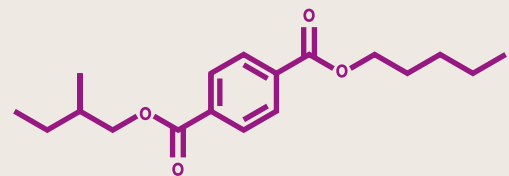
SEMI-VOLATILE ORGANIC COMPOUNDS

ELATUR® DPT contains max. 1 % SVOC.



REGULATORY SNAPSHOT

- Excellent safety profile



di-isopentyl terephthalate (DPT)

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Oxeno GmbH & Co. KG

Paul-Baumann-Straße 1
45772 Marl, Germany

C4-chemicals@evonik.com
www.evonik.com/c4-chemicals

ELATUR® DINCD

Resistance. The toughest for all needs.

ELATUR® DINCD is an innovative low-viscosity plasticizer with excellent cold flexibility and very low volatility especially suitable for demanding applications.

ELATUR® DINCD

APPLICATIONS

- Plasticizer for PVC
- Adhesives & Sealants
- Coatings & Paints

SPECIAL OFFERINGS

- Special packaging available
- Life-cycle assessment data available

PERFORMANCE AT A GLANCE

- Excellent low viscosity and aging
- Low volatility
- Excellent cold flexibility
- High UV stability

LOW VISCOSITY

OUTDOOR STABILITY

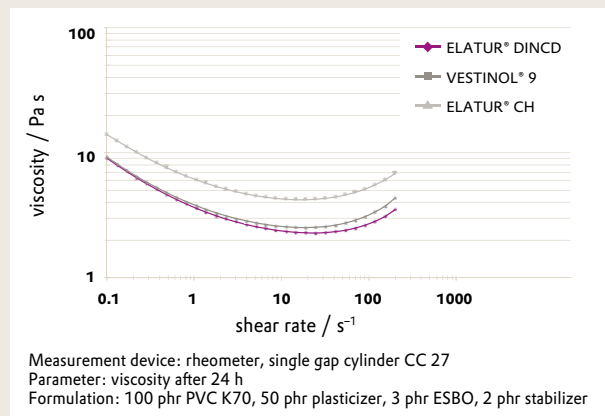
HIGH EFFICIENCY

LOW VOLATILITY

PROCESSING PERFORMANCE

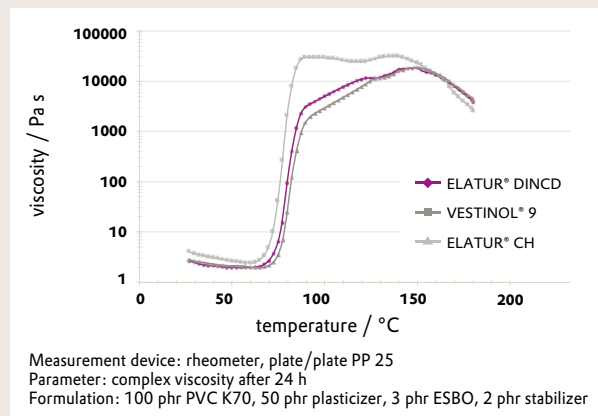
VISCOSITY

Plastisols with ELATUR® DINCD show excellent processing viscosity.



GELATION

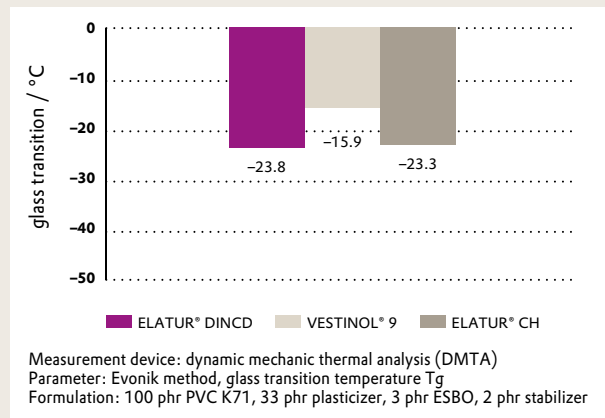
ELATUR® DINCD exhibits a good gelation profile.



TECHNICAL PERFORMANCE

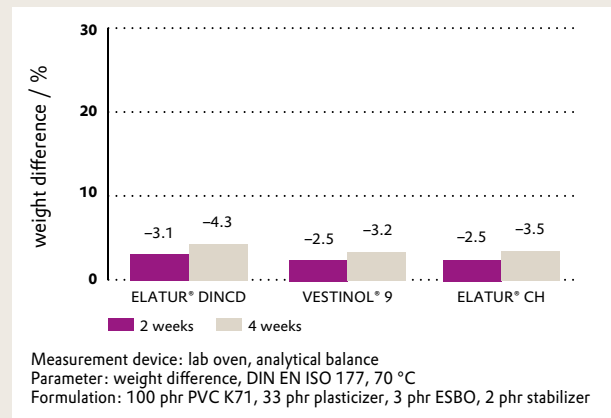
COLD FLEXIBILITY

Products with ELATUR® DINCD show superior low temperature flexibility.



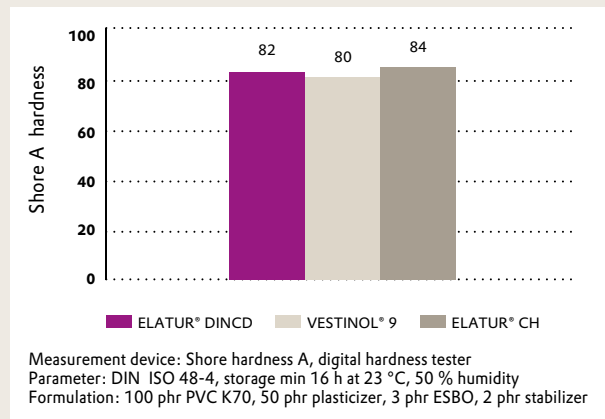
MIGRATION INTO PVC-U

ELATUR® DINCD shows a low migration tendency into rigid PVC.



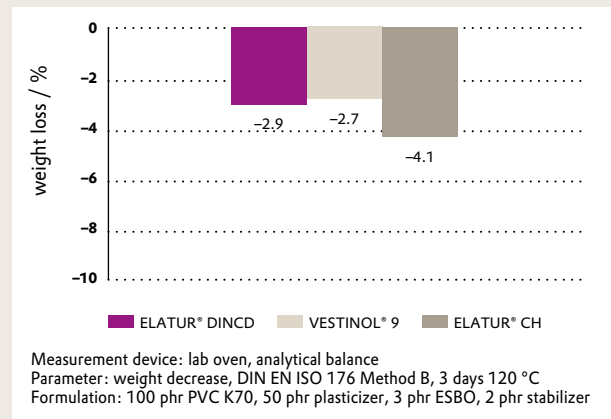
EFFICIENCY

Products with ELATUR® DINCD show high efficiency.



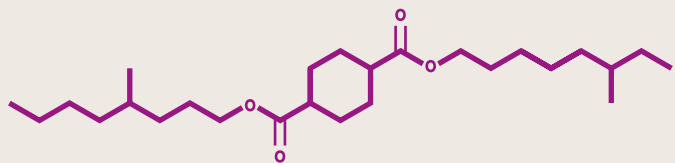
VOLATILITY

ELATUR® DINCD exhibits an excellent emission profile.



REGULATORY SNAPSHOT

- Excellent safety profile



di-isonyl-1,4-cyclohexane dicarboxylate (DINCD)

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Oxeno GmbH & Co. KG

Paul-Baumann-Straße 1
 45772 Marl, Germany

C4-chemicals@evonik.com
 www.evonik.com/c4-chemicals

ELATUR® TM

Stability. Heat resistance at its perfection.

ELATUR® TM is a specialty plasticizer with an excellent migration profile and very low volatility especially suitable for applications where low emissions are needed.



APPLICATIONS

- Specialty plasticizer for PVC
- Automotive applications, e.g. artificial leather
- High temperature cables

SPECIAL OFFERINGS

- Special packaging available

PERFORMANCE AT A GLANCE

- High temperature resistance
- Extremely low volatility
- Migration Resistance
- Good cold flexibility

HIGH TEMPERATURE RESISTANCE

MIGRATION RESISTANCE

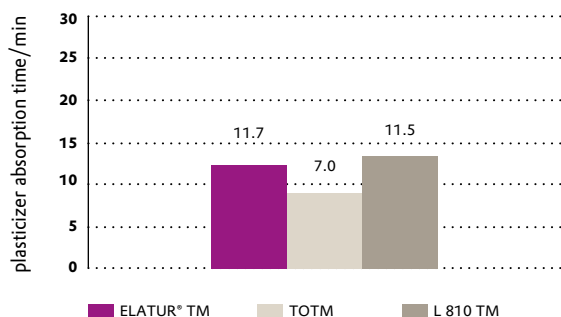
LOW FOGGING

EXTREMELY LOW VOLATILITY

PROCESSING PERFORMANCE

ABSORPTION

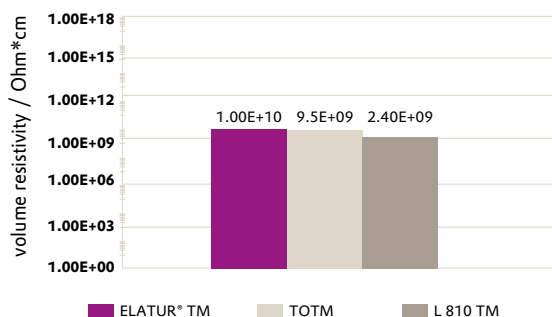
Dryblends with ELATUR® TM show slightly higher plasticizer absorption times due to higher molecular weight of the plasticizer.



Measurement device: planetary mixer
Parameter: absorption time at 88 °C
Formulation: 100 phr PVC K71, 50 phr plasticizer, 20 phr filler, 10 phr stabilizer

ELECTRICAL INSULATION CHARACTERISTICS ACCORDING TO DIN EN 62631-3-1

ELATUR® TM shows very good electrical insulation properties at elevated temperatures.

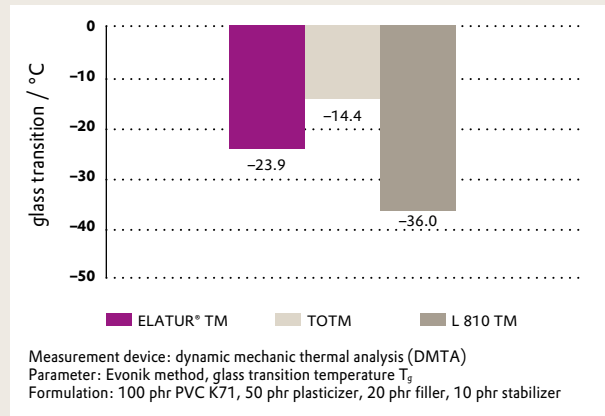


Measurement device: annular electrode out of conductive silver, 49.02 cm²
Parameter: volume resistivity at 70 °C
Formulation: 100 phr PVC K71, 50 phr plasticizer, 20 phr filler, 10 phr stabilizer

TECHNICAL PERFORMANCE

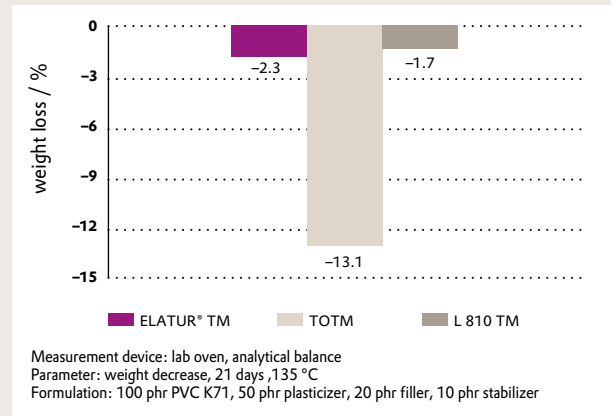
COLD FLEXIBILITY

Products with ELATUR® TM show an improved temperature flexibility.



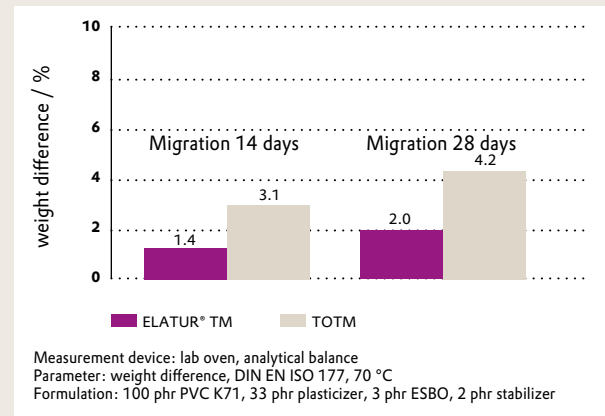
VOLATILITY

ELATUR® TM shows extremely low volatility at high temperatures.



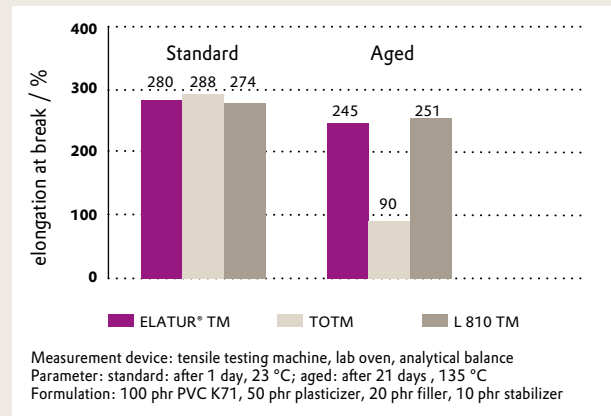
MIGRATION INTO PVC-U

ELATUR® TM shows an improved migration resistance into rigid PVC.



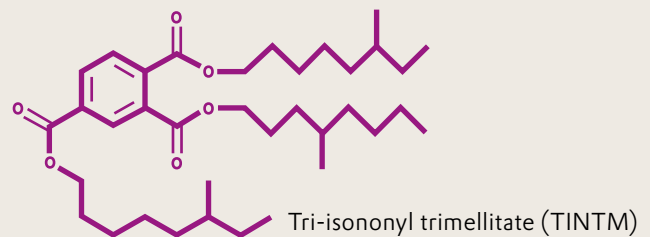
MECHANICAL PROPERTIES

ELATUR® TM shows good mechanical resistance in aged samples at high temperatures.



REGULATORY SNAPSHOT

- Excellent safety profile



Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Oxeno GmbH & Co. KG

Paul-Baumann-Straße 1
 45772 Marl, Germany

C4-chemicals@evonik.com
 www.evonik.com/c4-chemicals

EVONIK OXENO GMBH & CO. KG
Performance Intermediates Business Line
Oxo Alcohols & Plasticizers

C4-chemicals@evonik.com
www.evonik.com/c4-chemicals

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods.

Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

ELATUR® - registered trademark of **EVONIK INDUSTRIES AG** and its subsidiaries

VESTINOL® - registered trademark of **EVONIK INDUSTRIES AG** and its subsidiaries