DEUREX EO 40 K

TECHNICAL INFORMATION

Chemical description: Modiefied oxidized MDPE wax

Applications:

PVC and other plastics

- Can be used in all U-PVC and P-PVC applications but also in C-PVC

DEUREX oxidized HDPE waxes are the best choice of lubricants especially in combination with calcium-zinc and tin stabilizers for rigid PVC products like window profiles, technical profiles, pipes and fittings.

Properties:

Partially internal and external wax, highly effective wax

- Accelerates fusion
- Increases torque and pressure
- Synergistic effect in combination with non-polar PE waxes by reduction of melt viscosity
- Attractive price-performance ratio
- Dust free

Typical dosages:

Depending on the rheological requirements:

- up to 0.3 phr for PVC
- up to 1.5 phr for C-PVC

Typical properties:

Colour: Slightly yellow
Delivery form: **DEUREX EO 40 K** = Fine Granules

	Minimum	Maximum	Method
Drop point*:	98 °C	112 °C	ASTM D 3954
Acid value*:	3 mg KOH/g	10 mg KOH/g	ASTM D 1386
Penetration:	5.0 mm*10^{-1}	10.0 mm*10^{-1}	ASTM D 1321
Viscosity (140 °C)*:		120 mPas	ISO 3219
Density (23 °C):	0.94 g/cm³	0.96 g/cm³	ISO 1183

* Part of certificate of analysis

Additional lubricants: Siehe **https://www.deurex.de/produktsuche/DEUREX-EO-40-K/**

This data sheet is based on our current knowledge and experience. In view of the individual factors that may affect processing and application, this data does not relieve users from the responsibility of carrying out their own tests and experiments, neither do they imply any legally binding assurance of certain properties. Existing industrial/commercial protective laws have to be considered by the recipient. Updated versions of the data sheet replace all formerly existing versions.

DEUREX AG
Dr.-Bergius-Straße 8-12
D-06729 Elsteraue

T.:+49 (0) 03441/8 29 29 29
F.:+49 (0) 03441/8 29 29 28
info@deurex.com / www.deurex.com

DEUREX
THE WAX COMPANY

DEUREX EO 40 K

DEUREX EO 40 K was investigated in a calcium-zinc stabilized window profile formulation containing:

- 100 phr S-PVC (k=67)
- 10 phr coated calcium carbonate, window profile grade
- 4 phr titanium dioxide, rutile, window profile grade
- 6 phr acrylic impact modifier
- 3 phr calcium-zinc stabilizer

The dry blends were mixed up to 120°C in a high speed hot mixer and cooled down to 45°C. After a relaxation time of >12 hours the dry blend was extruded on a parallel twin screw extruder KMD 35-26. The results are summarized in Fig. 1 to Fig. 4. It was also found that **DEUREX EO 40 K** is very similar to equal in its influence on rheology compared to a standard oxidized LDPE wax available on the market.

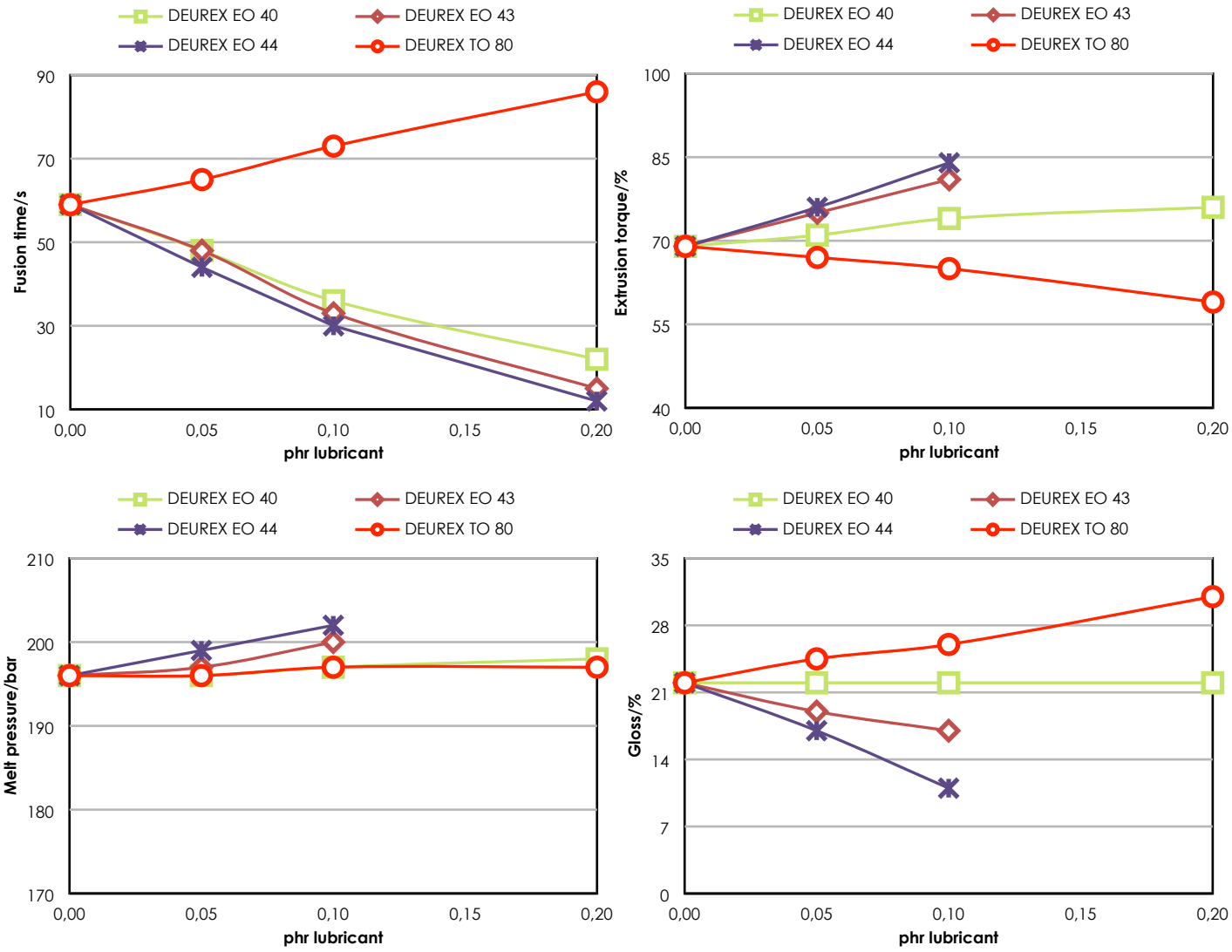


Fig. 1 to Fig. 4 Influence of the dosage of DEUREX EO 40 in comparison to EO 43, EO 44 and TO 80 on fusion time (Fig. 1), extrusion torque (Fig. 2), melt pressure (Fig. 3) and gloss (Fig. 4)

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