

DEUREX® X 20 K

TECHNICAL INFORMATION

Chemical description: Bio-based N,N'-Ethylene bis stearamide (EBS), plant based

Benefits: - Bio-based wax

- Temperature stable

Lighter color compared to all other amide waxesNo influence on transparency, nearly odorless

Applications: PVC and other plastics

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

DEUREX® X 20 K is a special development for applications that require high gloss. It is the best choice of lubricants in combination with calcium-zinc and

especially tin stabilizers for rigid PVC products like window profiles.

Properties: External & internal wax, highly effective wax

- Between internal and external lubricant with anti-blocking, anti-tacking,

anti-sticking and anti-static effect Mold release agent, slip agent

- Improves gloss in U-PVC especially in window profile applications

- Improves surface resistance to salt, heat, moisture and most solvents

Very useful in combination with tin stabilizersMight reduce thermal stability when overdosed

- Dust free

Typical dosages: Depending on the rheological requirements:

- 0.1 up to 0.2 phr for PVC

Technical data: Colour: White

Delivery form: **DEUREX® X 20 K** = Fine granules

	Minimum	Maximum	Method
Drop point*:	142 °C	151 °C	ASTM D 3954
Acid value*:		6 mg KOH/g	ASTM D 1386
Viscosity (150 °C):		20 mPas	ISO 3219
Penetration:	2.0 mm*10 ⁻¹	5.0 mm*10 ⁻¹	ASTM D 1321
Density (23 °C):	0.98 g/cm³	1.00 g/cm³	ISO 1183

^{*} Part of certificate of analysis

Approvals: Food contact approvals

Alternative delivery form: See https://www.deurex.com/productsearch/DEUREX-X-20-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.

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DEUREX® X 20 K

DEUREX® X 20 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 stabiliser

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® X 20 K** is very similar to equal in its influence on rheology compared to a standard N,N'-Ethylene bis stearamide wax.

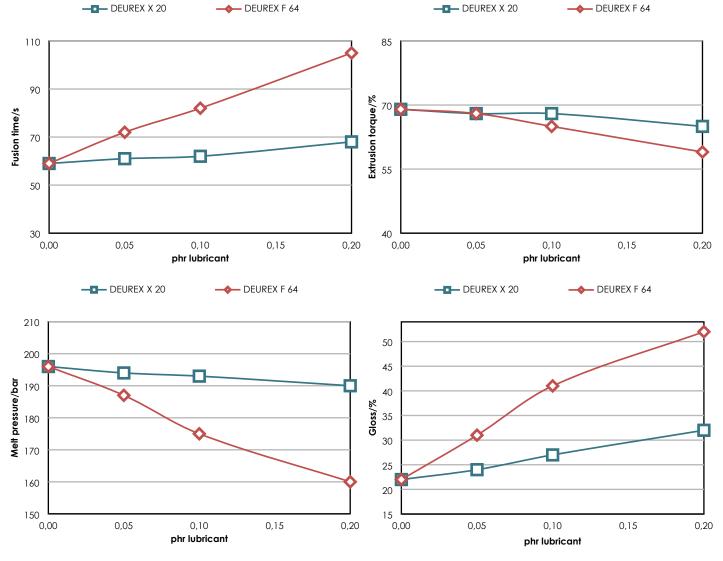


Fig. 1 to Fig. 4 Influence of the dosage of DEUREX® X 20 K in comparison to F 64 on fusion time (Fig. 1), extrusion torque (Fig. 2), melt pressure (Fig. 3) and gloss (Fig. 4)

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