

Stabaxol[®] I Powder

Hydrolysis Stabilizers

Description

Stabaxol[®] I is an active antihydrolysis agent with distinctly reduced content of volatile components for polyester polymers (PET, PBT, TPE), polyamide, thermoplastic polyesterpolyurethanes (TPU) and millable urethane rubber. Stabaxol[®] I Powder is very suitable for the production of monofilaments.

Chemical Composition

Monomeric carbodiimide

Appearance

White to slightly yellowish powder, tends to form lumps

Solubility

Soluble in organic solvents like dichloromethane, toluene or alcohols; insoluble in water

Typical Properties*

Property	Nominal Value	Unit
Carbodiimide content	min. 10.5	wt. %
Density at 50 °C / 122 ° F	approx. 0.95	g/cm ³
Melting range (DSC main peak)	approx. 50 / 122	°C / °F
Viscosity at 50 °C / 122 °F	approx. 16 - 24	mPa·s

*The analytical data are guide values.

Application

Stabaxol[®] I Powder is normally dissolved in the polyester polyol; alternatively, it may be added to the pre-polymer (only with terminal OH groups). An addition of 2.5 parts by weight Stabaxol[®] I Powder to 100 parts by weight polyester polyol will increase the resistance to hydrolysis approximately fourfold. As Stabaxol[®] I Powder tends to bloom in certain goods, the addition should not exceed 2 parts by weight (on 100 parts polyester polyol).

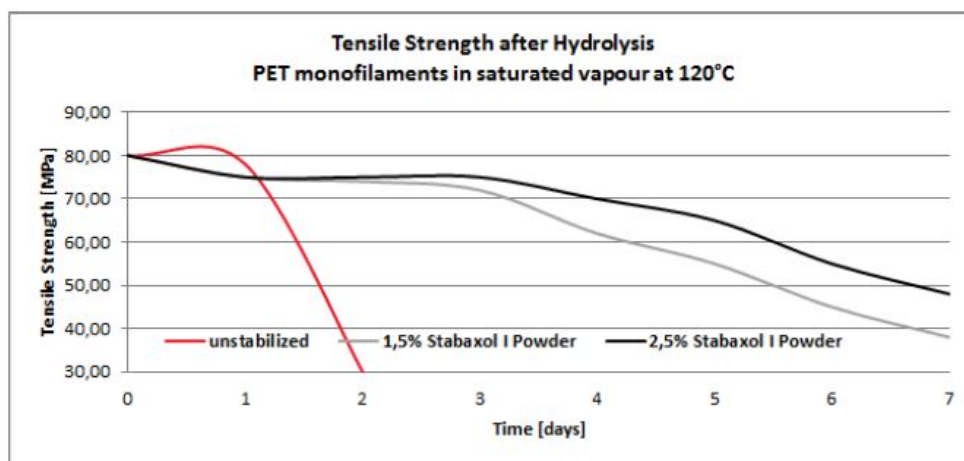
Prior tests should always be carried out to determine the most suitable dosage though.

To be most effective, Stabaxol[®] I Powder should be added to the polyester polyol during the warming-up period, starting at a minimum temperature of 50 °C (122 °F), to a maximum temperature of 120 °C (248 °F). As Stabaxol[®] I Powder does not disperse readily (it may float undissolved on the surface), it should be stirred intensively.



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Packaging

Cardboard box with 2 PE-inliner, contents 2 • 10 kg (2 • 22 lb), 320 kg (704 lb) per pallet

Storage conditions

Stabaxol® I Powder can be stored for at least 24 months under cool, dry conditions. The powder tends to form lumps, especially towards the end of the storage period.

Handling

Consult the safety data sheet for relevant safety data & references as well as possibly necessary warning labels.

® = registered trade mark

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North America
+1.833.LANXESS
customer.care@lanxess.com

Europe, Middle East & Africa
+44.161.875.3800
emea.export@lanxess.com

South & Central America
+55.19.3522.5083
atendimento.cliente@lanxess.com

Asia Pacific
+86.21.6109.6666
Orders.apac@lanxess.com

