



**Impranil® DL 1618**

**INSQIN® Toolbox for Inkjet Printing**  
Binder system with excellent adhesion properties.



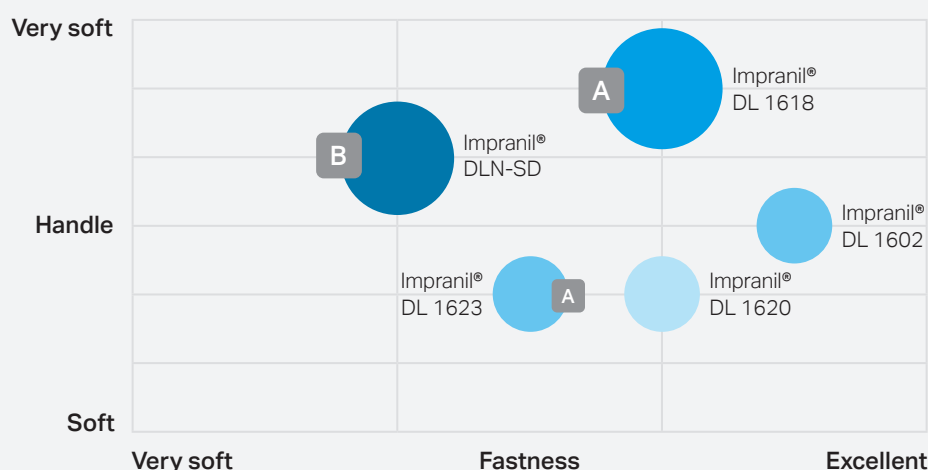
Impranil® DL 1618 is an **anionic aliphatic polyurethane dispersion**. The product has been designed for inkjet printing and shows a broad compatibility window as it can be combined with most commonly used humectants, cosolvents and pigment dispersions for inkjet inks.

Impranil® DL 1618 is an essential component of environmentally compatible waterborne ink systems **for textiles**. Its major benefits are:

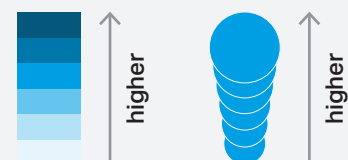
- **Excellent adhesion** with different textile substrates
- Especially suitable for **white ink layer for heat-transfer printing**

Properties	Value
<b>Backbone</b>	PES
<b>Non volatile content</b> DIN EN ISO 3215	50 %
<b>pH value</b> DIN ISO 976	7 - 9
<b>Modulus @ 100 %</b> DIN 53504	1 MPa
<b>Break elongation</b> DIN 53504	1160 %
<b>Tensile strength</b> DIN 53504	9 MPa
<b>Typical viscosity (23 °C, 40 1/s)</b> DIN EN ISO 3219	< 250 mPas
<b>Typical mean particle size</b>	< 300 nm
<b>T<sub>g</sub></b>	- 4 °C

Comparison of Impranil® binder systems for digital textile printing



Viscosity\* Particle size



**A Adhesive**

**B Blend**

*\*Note: Viscosity at delivery form, not normalized to solid content*



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Want to know more about our  
INSQIN® toolbox for digital  
textile printing? Scan me!

