



**Impranil® DL 1620**

## **INSQIN® Toolbox for Inkjet Printing**

Binder system with very good jettability and suitability for various inkjet processes.



Impranil® DL 1620 is an **anionic aliphatic polyester polycarbonate dispersion**. Its property profile makes it particularly suitable for digital textile printing.



*Pigment ink formulation including 17 wt % Impranil® DL 1620 printed on a cotton knitted textile without pre-treatment*

The product is an essential component of more environmentally-friendly waterborne ink systems **for textiles**.

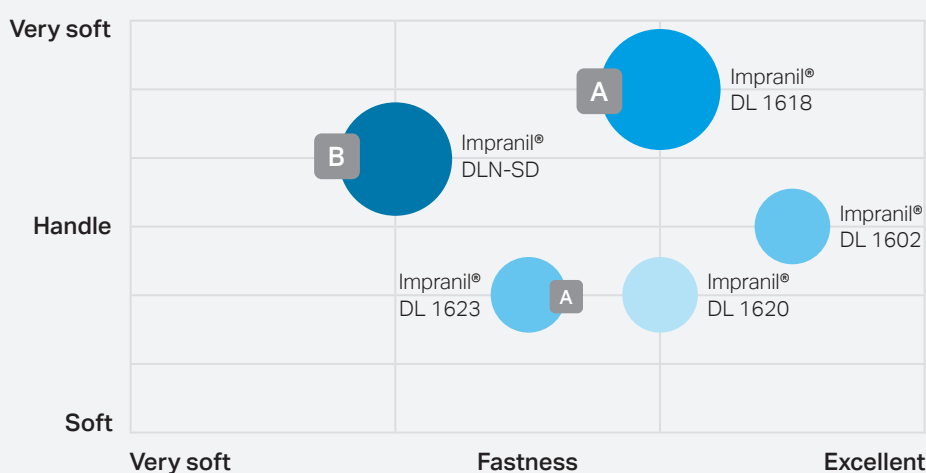
Its major benefits are:

- Excellent **filterability\*** and good **jetting performance**
- Good **transparency** in supply form
- Suitable for **direct-to-garment (DTG)**, **roll-to-roll (RTR)** and **direct-to-film (DTF)** processes

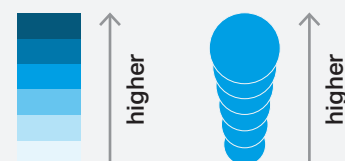
Properties	Value
<b>Backbone</b>	PES/PC
<b>Non volatile content</b> DIN EN ISO 3215	33 %
<b>pH value</b> DIN ISO 976	7 - 9
<b>Modulus @ 100 %</b> DIN 53504	6 MPa
<b>Break elongation</b> DIN 53504	450 %
<b>Tensile strength</b> DIN 53504	18 MPa
<b>Typical viscosity (23 °C, 40 1/s)</b> DIN EN ISO 3219	< 100 mPas
<b>Typical mean particle size</b>	< 100 nm
<b>T<sub>g</sub></b>	- 45 °C

\* Filterability evaluated with internal test method (5 µm and 1.2 µm PP membrane filter)

## 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!

