

**«Waterborne Biobased polyurethane  
for Technical Textile and Synthetic  
Materials»**



# Biobased Polyurethane dispersion are designed for textile coating and impregnations for high level applications.



High Renewable content:

- From 45% to 70%
- Measured according to ASTM D 6866 as a fraction of total organic carbon and as a fraction of total polymer weight



Long lasting performance thanks to

- superior hydrolysis resistance
- high elongations and mechanical performance
- High chemical resistance



Developed to eliminate solvent like DMF in textile and reduce the carbone dioxide total emission in the environment

- Textile coating
- Synthetic material
- Coagulation

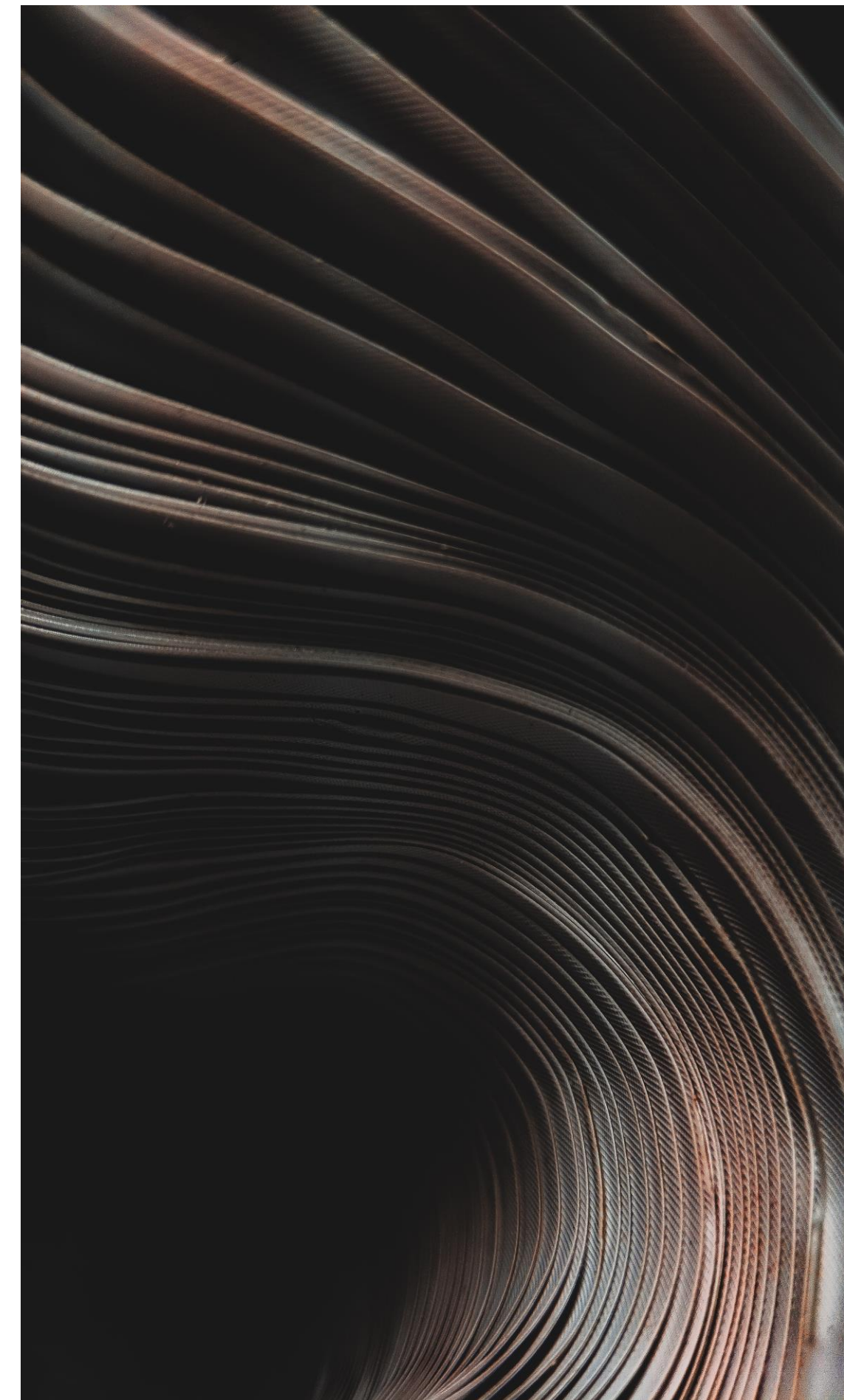


# Inventing new materials:

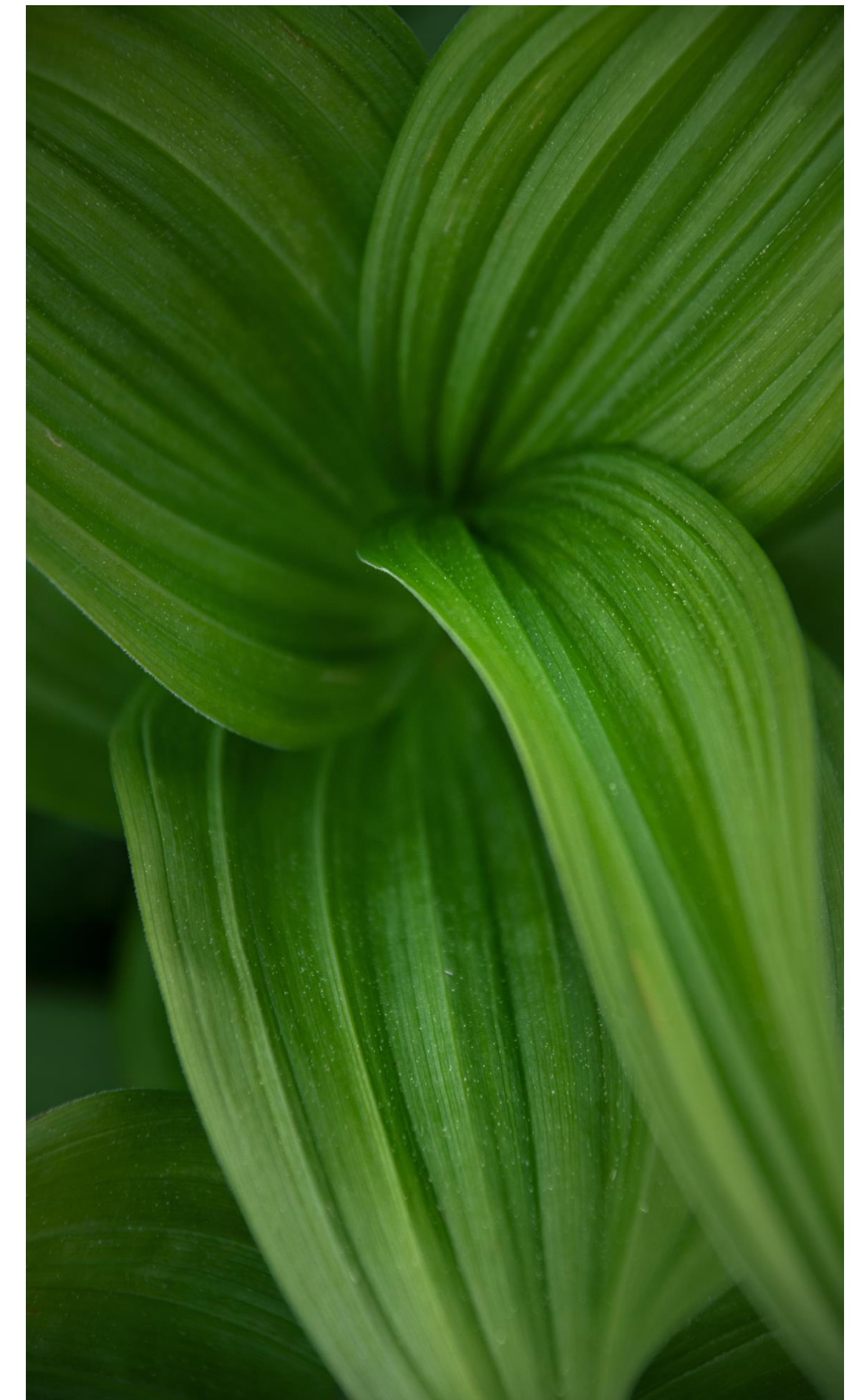
High performance,  
High sustainability  
Highest renewable content



**WATERBASED  
COAGULATION AND  
IMPREGNATION**



**INTERMEDIATE  
WATERBASED FOAM  
COATING**



**WATERBASED PU SKIN  
AND TOP COATING**

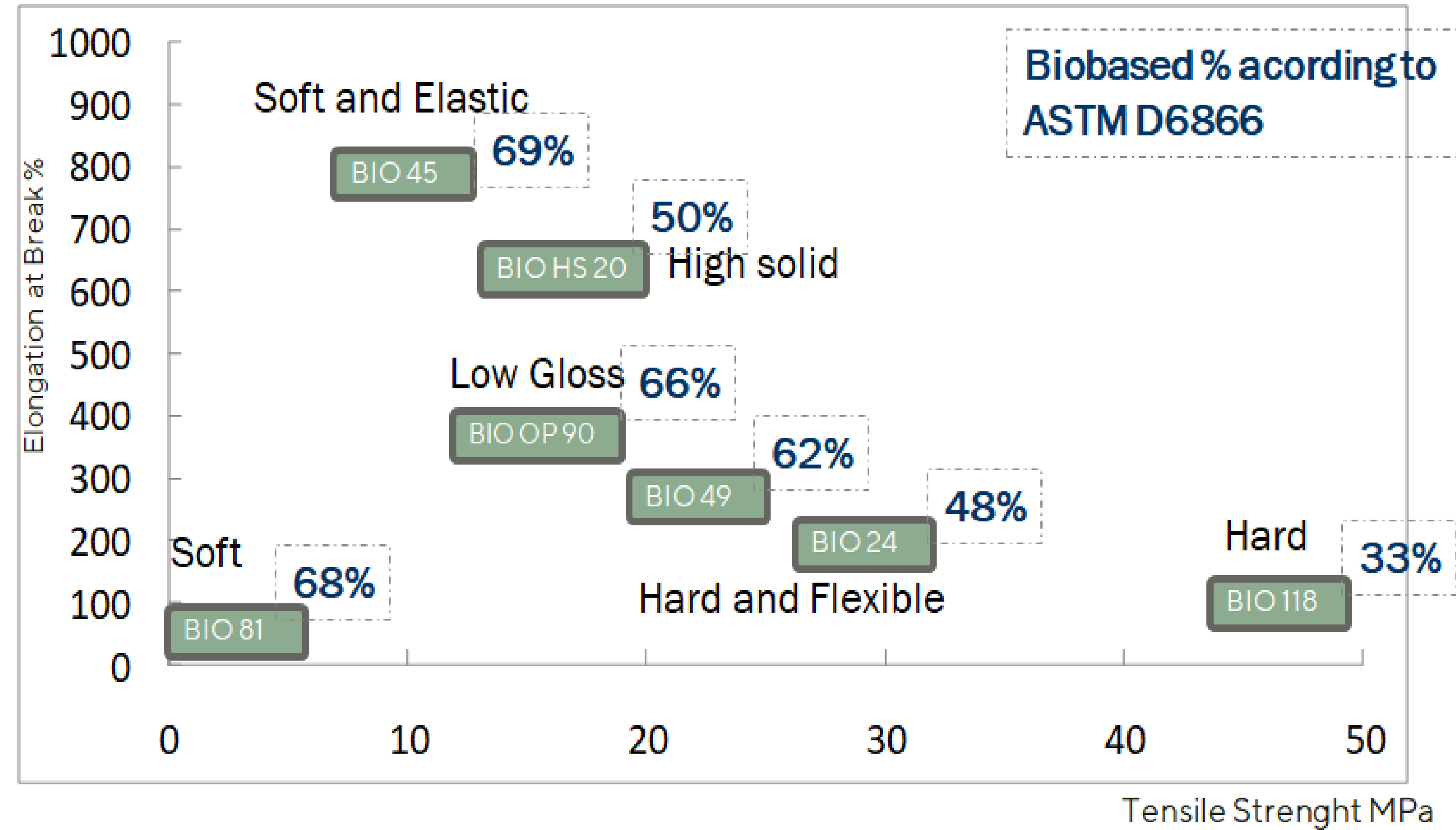




# Rolflex Bio:

- Mechanical performance
- Bio content
- Properties

Product	Bio content	Application	Note
<b>BIO HS 20</b> 60% solid - PE	<b>50% BIO</b>	<b>Intermediate and Foam layer</b>	High solid, high mechanical resistance.
<b>BIO 45</b> 30% solid - PE	<b>69% BIO</b>	<b>Impregnation, Skin Coating, Top Finish</b>	Soft and elastic mechanical resistance
<b>BIO 24</b> 35% solid - PE	<b>48% BIO</b>	<b>Impregnation, Skin Coating, Top Finish</b>	Medium hard and glossy with excellent flexibility and chemical resistance
<b>BIO OP 90</b> 32% solid - PE	<b>66% BIO</b>	<b>Skin Coating, Top Finish for Low gloss</b>	Intrinsically opaque polyurethane, with transparency and flexibility
<b>BIO 49</b> 35% solid - PES	<b>62% BIO</b>	<b>Skin Coating</b>	rigid and elastic with high compatibility with pigments,
<b>BIO 118</b> 33% solid - PES	<b>33% BIO</b>	<b>Effect</b>	Very rigid and hard
<b>BIO 81</b> 32% solid - PES	<b>68% BIO</b>	<b>Effect</b>	Touch modifier and soft
<b>DECOSPHAERA BIO 8-20</b> 100%	<b>51% BIO</b>	<b>Skin Coating, Top Finish for Low gloss</b>	Polymeric Matting agent







**Thank you**

**Lamberti s.p.a.**

**Textile@lamberti.com**

