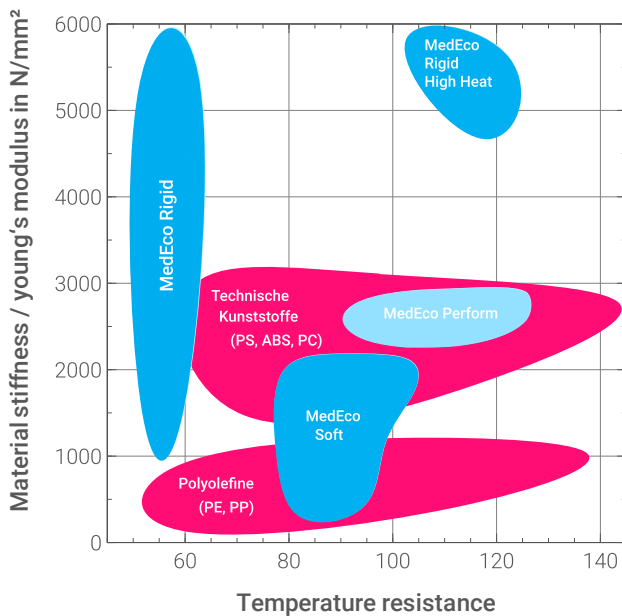




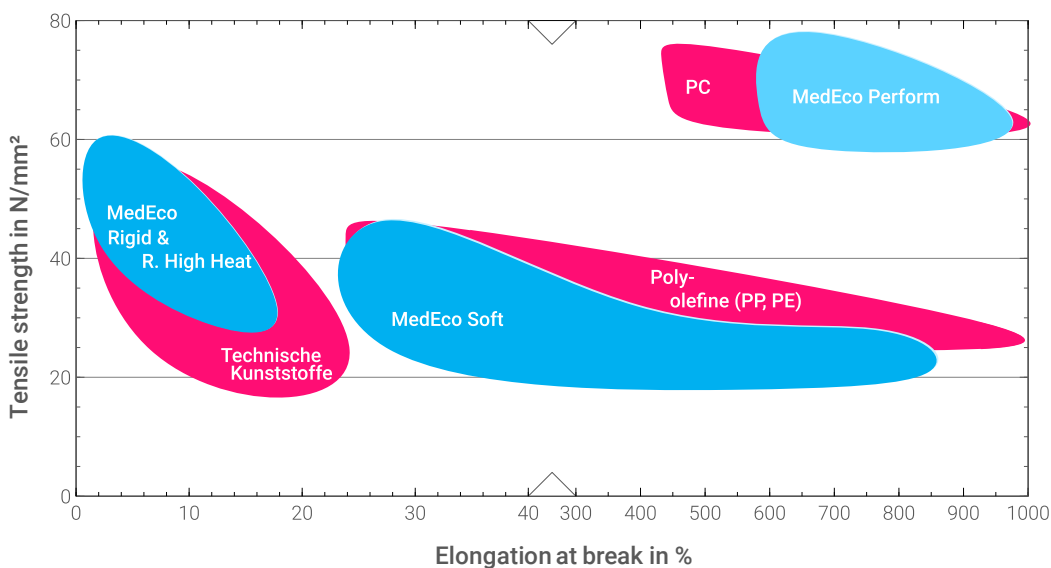
## MedEco Compounds

FOR A LIVABLE WORLD



- ▶ Biobased
- ▶ Reduced CO<sub>2</sub> footprint
- ▶ ISO 10993 conform
- ▶ EO/Gamma/X-Ray/SCC sterilization capable
- ▶ Quality management acc. ISO 13485

The MedEco bio-compounds are intended for applications in medical and laboratory devices and packaging. They have a significantly reduced environmental impact compared to fossil plastics and are an important part of a truly sustainable circular economy.



Our compounds can be adapted to your needs in a wide range. Please contact us!

You will find sample compounds overleaf.



**MedEco Rigid**

Rigid components, also transparent, with best CO2 footprint and great price-performance ratio. Preferably for moderate temperature requirements.

**MedEco Soft**

For medium stiff components with demanding temperature resistance requirements. Increased impact strength and a good environmental balance.

**MedEco Perform**

The high performance plastic with medium stiffness. Crystal clear, very durable with high strength and impact resistance and heat deflection temperature.

		MedEco Family				Rigid		Soft		Perform	
		Type >>	ICB	IGH	XCB	XGB	IGB	XYI	ICH	XCI	
<b>Application</b>	Injection Molding		▲	▲			▲		▲		
	Extrusion				▲	▲		▲		▲	
<b>Risk class</b>	MDR I		▲	▲	▲	▲	▲	▲	▲	▲	
	MDR II/III**		▲		▲						
<b>ISO 10993</b>	Physical and chemical assessment		▲	▲	▲	▲	Certification 2023 or upon request				
	Cytotoxicity		▲	▲**	▲	▲**					
	Sensibilization		▲	▲**	▲	▲**					
	Skin irritation		▲	▲**	▲	▲**					
	Acute systemic toxicity		▲	▲**	▲	▲**					
	Hemocompatibility		▲		▲						
	Other biocomp characteristics:	upon request									
<b>Sterilization</b>	Ethylenoxide (EO)		▲	▲	▲	▲	▲	▲	▲	▲	
	Gamma radiation (γ)		▲	▲	▲	▲	▲	▲	▲	▲	
	Supercritical CO <sub>2</sub> (SCC)		▲	▲	▲	▲	▲	▲	▲	▲	
<b>Physical</b>	Density	g/cm <sup>3</sup>	1,24	1,30	1,24	1,26		1,26	1,36	1,31	
<b>Processing</b>	MFI (Flow, 190°C/2,16kg)	g/10min	30	35	2,6	3,5	22	5			
	MFI (Flow, 230°C, 2,16kg)	g/10min							10	5	
	Melting temperature	°C	175	175	155	155	115	115	240	235	
	Pre-drying	yes/no	yes	yes	yes	yes	yes	yes	yes	yes	
<b>Mechanical</b>	Young's modulus (tensile)	N/mm <sup>2</sup>	3450	4300	3540	4300		670	2700	2300	
	Tensile Strength	N/mm <sup>2</sup>	65	65	75	75		40	79	64	
	Elongation at break	%	5,5	6,5	3,5	8		210	72	120	
<b>Impact</b>	Charpy notched, 23°C	kJ/m <sup>2</sup>	2,5	2,5	5	5		10	7	10	
<b>Heat</b>	HDT B	°C	105*	110*	60	60	95	95	114	92	
<b>Bio based</b>	Bio carbon content	%	>99	>98	>99	>98	50	>80	56	38	

\* With annealing process. Without post-treatment: 60°C. Annealing reduces transparency.

\*\* Class IIb and higher risk classes depending on product type, intended use and risk assessment. Any MDR-regulated use of our materials requires a release from BIOVOX.

The values listed are typical values and are not to be understood as specifications.



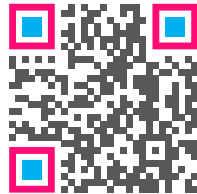


**Book your free consultation now!**

**[->www.calendly.com/biovox](https://www.calendly.com/biovox)**



*Dr.-Ing. Julian Lotz*



I look forward to getting to know you and your application!

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### About Julian

Julian is co-founder and has been working with fiber-plastic composites & compounds for 17 years.

He helps you, together with the BIOVOX experts, to master the challenge of sustainable medical and laboratory technology.

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### Managing directors:

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Carmen Rommel

**Company seat:** Darmstadt

**Registry court:** Amtsgericht Darmstadt, HRB 101494

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