

ECO-GEHR PLA-HI®

New to our product range: High Impact-resistant sheets made of PLA



ECO-GEHR PLA-HI® sheets based on renewable raw materials consist of 90% PLA. They are produced – as all GEHR products - CO₂ neutral according GHG Protocol Scope 1 +2. The sheets stand out for their high impact strength and are therefore suitable for use in demanding applications. Mechanical processing of the sheets is easily possible. Post-processing can be applied without any problems such as

- deep drawing
- printing
- glueing
- sawing
- drilling
- punching

We have the following sheets available in stock:



Width: 1.000 mm
Length: 2.000 mm

ECO-GEHR PLA-HI

thickness (mm)	kg/ m
2	2,7
3	4,0
4	5,4

The sheets are currently in stock in natural/ translucent colour but can also be dyed.

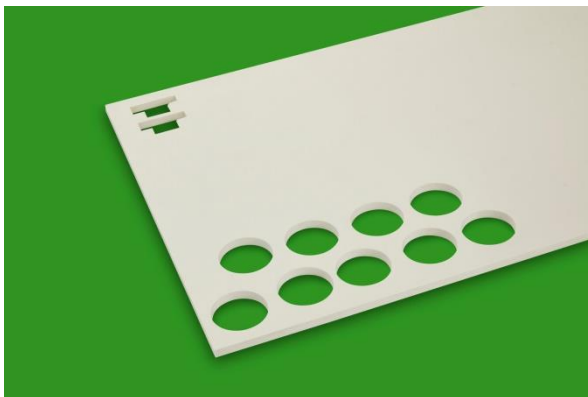
*Corresponds to 1,3 kg CO₂ (emission of greenhouse gas) for the production of 1 kg **ECO-GEHR PLA HI®** sheets
In comparison ABS: 5,5 kg CO₂

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Technical data of the raw material:

	Test method	Unit	Value
Specific gravity (ρ)	ISO 1183	g/cm ³	1,2
Maximum permissible service temp	UL746B	°C	60
Tensile strength at yield (σ_S)	ISO 527	MPa	46 (49)
Elongation at yield (ϵ_S)	ISO 527	%	2 (2)
Tensile strength at break (σ_R)	ISO 527	MPa	37 (27)
Elongation at break (ϵ_R)	ISO 527	%	20 (>100)
Impact strength (a_n)	ISO 179	kJ/m ²	o.B. (o.B.)
Notch impact strength (a_k)	ISO 179	kJ/m ²	67 (25)
Shore-D	ISO 868		77
Flexural strength ($\sigma_{B, 3,5\%}$)	ISO 178	MPa	87 (81)
Modulus of elasticity (E_t)	ISO 527	MPa	3500 (2960)
Melting temperature (T_m)		°C	177
Bondability	-	-	+
Flammability	UL 94	-	HB
Heat deflection temperature. HDT/B	ISO 75		55-60



Mechanical processing of the ECO-GEHR PLA-HI[®] sheets is easily possible, e.g. punching (left) or deep drawing (right)