

Affenzahn Rahmen: Vergleich CO2-Äquivalente Aluminium vs. Glasfaserverstärktes Polyamid (21.11.2022)

Rahmenmaterial	Gewicht (kg)	CO2-Äquivalente (kg CO2/kg Material)	Quelle	CO2 Emissionen (kg)
Herkömmlicher Rahmen aus Aluminium (Al 6061)	0,850	11,230	(1)	9,546
Polyamid PA 6.6 (70%)	0,455	6,400	(2)	2,912
Glasfaser GF (30%)	0,195	1,500	(3)	0,293
Affenzahn Rahmen (PA 6.6 GF)	0,650	4,930		3,205
Affenzahn Rahmen (Al 6061-Einleger)	0,200	11,230		2,246
Affenzahn Rahmen (PA 6.6 GF + Al Einleger)	0,850			5,451
Ersparnis				43%

1 Ökobilanz-Software „Umberto LCA+“, Stand 11/22

2 Eco-profiles and Environmental Product Declarations of the European Plastics Manufacturers - Polyamide 6.6 (PA6.6) Plastics Europe – February 2014, S.20 (by PlasticsEurope AISBL)

3 Life cycle assessment of CFGF – Continuous Filament Glass Fibre Products - October 2016, S.25 (prepared for Glass Fibre Europe by PwC – Sustainable Performance and Strategy)