

Affenzahn Rahmen 16 Zoll: Vergleich CO2-Äquivalente Aluminium vs. Glasfaserverstärktes Polyamid (04.12.2023)

| Rahmenmaterial | Gewicht (kg) | CO2-Äquivalente (kg CO2/kg Material) | Quelle | CO2 Emissionen (kg) |
|--|--------------|--------------------------------------|--------|---------------------|
| Herkömmlicher Rahmen aus Aluminium (Al 6061) | 1,550 | 11,230 | (1) | 17,407 |
| Polyamid PA 6.6 (70%) | 0,903 | 6,400 | (2) | 5,779 |
| Glasfaser GF (30%) | 0,387 | 1,500 | (3) | 0,581 |
| Affenzahn Rahmen (PA 6.6 GF) | 1,290 | 4,930 | | 6,360 |
| Affenzahn Rahmen (Al 6061-Einleger) | 0,260 | 11,230 | | 2,920 |
| Affenzahn Rahmen (PA 6.6 GF + Al Einleger) | 1,550 | | | 9,280 |
| Ersparnis | | | | 47% |

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)