



Starter: Material LCA

Material
Assessment conditions

Version: XX

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Dear Customer,

Please find the Material LCA report of the requested BASF Forward AM product. Please note that communication, sharing, disclosing or disseminating of this document in whole or in part to any external parties or entities without prior written consent from BASF 3D Printing Solutions is prohibited.

UltraXX® XXX

System boundaries: Cradle to gate, (excluding packaging)
Functional unit: 1kg of XXXX
Data sources: Primary data from BASF Forward AM, background data from reference Databases: Gabi and Plastic Europe.
Cut-off rules: No significant cut-off (<1% of total mass and energy inputs)
LCA practitioner: Forward AM sustainability department
LCA reviewer: Gingo Z1 - 8 Rue du Conseil de l'Europe, 91300 Massy - France
Methods used: EF 3.0 Method

Life Cycle Assessment

ACCORDING TO ISO 14040 : 2006
AND ISO 14044 : 2006

Impact category	Value
EF 3.0 Acidification [Mole of H+ eq.]	XXXX
EF 3.0 Climate Change - total [kg CO2 eq.]	XXXX
EF 3.0 Ecotoxicity, freshwater - total [CTUe]	XXXX
EF 3.0 Eutrophication, freshwater [kg P eq.]	XXXX
EF 3.0 Eutrophication, marine [kg N eq.]	XXXX
EF 3.0 Eutrophication, terrestrial [Mole of N eq.]	XXXX
EF 3.0 Human toxicity, cancer - total [CTUh]	XXXX
EF 3.0 Human toxicity, non-cancer - total [CTUh]	XXXX
EF 3.0 Ionising radiation, human health [kBq U235 eq.]	XXXX
EF 3.0 Land Use [Pt]	XXXX
EF 3.0 Ozone depletion [kg CFC-11 eq.]	XXXX
EF 3.0 Particulate matter [Disease incidences]	XXXX
EF 3.0 Photochemical ozone formation, human health [kg NMVOC eq.]	XXXX
EF 3.0 Resource use, fossils [MJ]	XXXX
EF 3.0 Resource use, mineral and metals [kg Sb eq.]	XXXX
EF 3.0 Water use [m³ world equiv.]	XXXX

The present study and its conclusions are based on the analysis of the life cycle steps of product systems and system boundaries for the described function unit. Transfer of these results and conclusions to other production methods or products is expressly prohibited. Partial results may not be communicated to alter the meaning, nor may arbitrary generalization be made regarding the results and conclusions. Forward AM data reflect the situation at the time such data have been collected and Forward AM shall be under no obligation to update the Forward AM evaluation data. Any Forward AM environmental evaluation Data are provided to you to the best of Forward AM's knowledge. However, Forward AM Data are based on certain presumptions and approximations, further explained in this report that consequently may impact the accuracy of the Forward AM Data. Forward AM Data shall not, to the extent permitted by applicable law constitute any representation or warranty of any kind, whether expressed or implied, and shall not relieve you from undertaking your own investigations and tests. Accordingly, any liability of BASF about the Forward AM Data, including, but not limited to its accuracy, quality, completeness, or fitness for particular purpose shall be excluded to the fullest extent permitted by applicable law. You explicitly accept this exclusion / limitation of liability.

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Environmental data in 16 impact categories [according to EF 3.0]

