

## One Pager Cradle to Cradle®

### Economical Industrial Composting and Biogas Production for infinito® fibers-yarns, reworx® textiles

A scientific study of degradation procedures and methods for infinito fibers-yarns, reworx textiles was undertaken by the University of Applied Sciences in Furtwangen, Germany in 2016/2017 within 270 days. Initiated by Lauffenmühle GmbH & Co KG. No additional chemicals were used in view of the Cradle to Cradle® Concept.

**Scientific Laboratory Testing:** All examinations were carried out in laboratory scale in compliance with DIN and ISO methodologies: "Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions – Method by analysis of evolved carbon dioxide – Part 2: Gravimetric measurement of carbon dioxide evolved in a laboratory scale test (DIN EN ISO 148552-2).



University of Applied Sciences Furtwangen,  
Germany  
ISO 148552-2  
ultimate aerobic biodegradability of Plastic  
2016/2017, 270 days.

### Economical Industrial Composting and Biogas Production

University of Innsbruck, Austria – VDI 4630 Analysis Gas Potential of infinito, reworx materials represent spread of 107 – 196 Nm<sup>3</sup> CH<sub>4</sub>/t oTR, economy of scale for Biogas Production > 137 Nm<sup>3</sup> CH<sub>4</sub>/t oTR. (2018)



Defined materials for a biological cycle  
Cradle to Cradle Certified™ GOLD.  
Prior shredded infinito, reworx textiles,  
yarns, fibers, plastic molded products  
prepared at Locker Recycling GmbH,  
Austria, Economical Industrial Composting,  
and Biogas Production. Oct, 2018



Defined materials for a biological cycle  
Cradle to Cradle Certified™ GOLD, infinito,  
reworx textiles, yarns, fibers, plastic  
molded products prepared for 5 days  
Biogas Production and Economical  
Industrial Composting, Oct. 2018 at  
Locker Recycling GmbH, Austria