GCR
Innovating
our sustainable
tomorrow

Case Study

Recyclable Soil & Fertiliser Bag (B&W Films)

Ciclic®– rLDPE PCR

CICLIC® rLDPE is the result of our close collaboration with customers, enabling us to **replace up to 80% of LDPE virgin polymer with PCR in demanding applications, all while maintaining exceptional processability.**

Our successful Soil Bag, incorporating 80% certified rLDPE PCR from CICLIC®, has garnered significant market acceptance.

CICLIC® rLDPE PCR enables manufacturers to achieve certifications like the Blue Angel, marking a substantial leap towards sustainability.

Performance

Sustainable Soil Bag
80% Ciclic

Thickness	60 µm	T.Strength MD	25N
Film structure	3 layer coex	T.Strength CD	25N
Capacity	20 L	Impact Resistance	300g
PCR Certified	RecyClass		

Key Advantages

- **Enhanced Whiteness** | Ciclic® can save some % TiO2 MB thanks to its strong white colour..
- **Successful Virgin Replacement** | Very good COF, puncture, dart and elongation. performance. No impairment of mechanical properties.
- **Smooth Production** | Contains no bubble-bursting gel.
- **Good Printability.**

Sustainability

LDPE prime is 1.91 kg of CO_2 equivalents per kg.

Ciclic® rLDPE is 0.136 kg of CO2 equivalents per kg.

Ciclic® rLDPE at 80% content

74% CO_2 reduction

RecyClass RECYCLING PROCESS EN 15343

AENOR TRAZABILIDAD PLÁSTICO RECICLADO POSCONSUMO UNE-EN 15343

TÜVRheinland CERTIFIED
PAS 2050:2011
Familia Ciclic LDPE
0,136 kg CO_2 eq.
para 1kg de producto
Año verificado 2020
www.tuv.com
ID 9000000421

The mineral present in the product may migrate if the manufactured product comes into contact with substances with a pH below 4.5. All the data presented represent average values that are indicative of the production process and should be considered for informational purposes only, not as contractual values. Note: To maintain the initial product quality, it is essential to follow the instructions described in the corresponding safety data sheet. The information provided in this technical data sheet is for guidance purposes only. The processor is responsible for the processing conditions and the final use of the product and must respect the rights of any third-party patents or other intellectual property rights, including but not limited to copyright, trademarks, and designs.