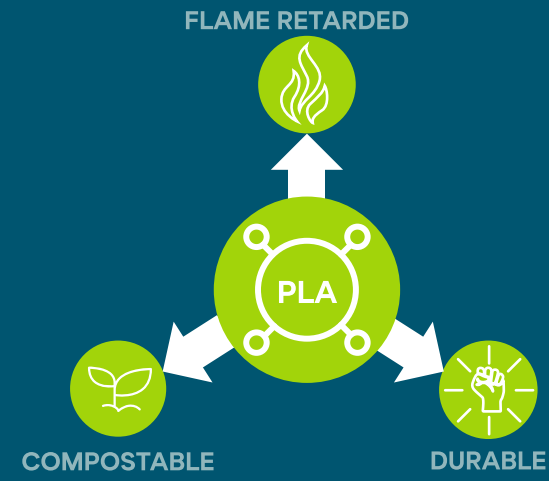
Introducing

Floreon®

Innovative plant-based plastic

We have a globally patented award winning technology for **HIGH PERFORMANCE** renewable materials



Our Low Carbon Grades:

Grade	Applications	Features	Benefits
Floreon Dura -Tech Durable Grade	Injection Moulding Extrusion 3D Printing Toys, durable applications not requiring fire resistance	High impact strength High HDT High renewable content (85% + by mass of polymer)	Suitable for demanding applications requiring the toughness and durability of ABS. Reduced carbon footprint over ABS and derived from renewable feedstock
Grade	Applications	Features	Benefits
Floreon Therma -Tech Flame Retarded Grade	Injection Moulding Extrusion 3D Printing Electronics and Electricals, home appliances, plug casings	High Impact Strength High HDT Flame Retarded (UL94V-0) High renewable content (85% + by mass of polymer)	Developed for applications requiring fire resistance. Durability comparable to flame retarded ABS
Grade	Applications	Features	Benefits
Floreon Bio -Tech Compostable Grade	Injection Moulding Extrusion 3D Printing Horticulture and disposable items	High renewable content (85% + by mass of polymer) Industrially compostable	Low carbon footprint, multiple end of life options

Certified B Corporation

Floreon Launches breakthrough PLANT-BASED plastic for Consumer Electronics

FLAME RETARDANT

HALOGEN FREE

Floreon is redefining the capabilities of plant-based plastic (PLA) by developing its world-first **flame retardant technology**. Certified for use with electrical white goods appliances, the halogen-free flame retardant PLA is a significant breakthrough for the consumer electronics industry.

Meeting a consumer need

In Floreon's consumer study, **91%** of UK adults said they would buy a white goods appliance made with plant-based plastic components. Floreon has been working hard to create a commercially viable formulation that meets this need. Thanks to its flame retardant plant-based plastic, global consumer electronic brands can bring such innovation to the market.

Working collaboratively with Clariant

The flame retardant plant-based plastic was developed in collaboration with additive expert Clariant. Managing Director of Floreon, Shaun Chatterton said:

"To collaborate with a world-leading additives business and produce an innovative solution for global electrical household brands is a pioneering move forward in white goods sustainability. It is an exciting culmination of a decade of development."

Redefining plant-based plastic (PLA)

Without Floreon's additive expertise, PLA is a brittle material that has prevented brands from taking advantage of its low carbon footprint in the past. Floreon is now bringing a plant-based plastic with all the same performance qualities as commonly used plastics, but with the added environmental benefits of deriving from renewable resources.

Floreon seeks first movers for plant based alternative to ABS plastic

The successful addition of a halogen-free flame retardant to Floreon's plant-based plastic enables major brands to lower their material carbon footprint by switching to a low carbon and renewable alternative to common plastics used today.

Manuel Mueller from Clariant commented:

"We recognise Floreon as leaders in plant-based plastic development. The company is an important collaborative partner for Clariant's sustainability development, allowing us to create leading-edge, innovative solutions together."

Ideal applications include the rigid plastic casings for phone chargers, which need to be fire resistant for safety reasons.

Floreon Application Highlight: Vacuums and Home Cleaning

FLAME RETARDANT

HALOGEN FREE

Floreon is a PLA based compound with enhanced durability and toughness.

By incorporating our halogen-free flame retardant element Floreon **Therma-Tech** it becomes perfect for electrical applications.

MATERIAL SUBSTITUTION POTENTIAL:
PP and ABS

COMPONENTS:
External Casing
Product Tools
Rigid Plug Casing
Charger Unit

Material	**Carbon Footprint** (CO2eq/kg plastic)*
ABS	3.8
PP	1.6
PLA	0.6

FLOREON FEATURES:

Certified **Fire Resistance**
Certified **Renewable Content**
Low Carbon Footprint
Halogen Free

BENEFITS:

- Improved **sustainability** characteristics
- **Safe** and **functional** material
- **Long lasting** and **durable**
- Helps brands meet **sustainability commitments**

*Reference: Vink & Davies 2014

Floreon Application Highlight: Storage Organiser

DURABLE GRADE

Floreon is a PLA based compound with enhanced durability and toughness.

This makes Floreon Dura-Tech ideal for rigid applications such as containers and storage boxes.

MATERIAL SUBSTITUTION POTENTIAL:
PP and ABS

COMPONENTS:
Body
Lid
Internal Separators

Material	**Carbon Footprint** (CO2eq/kg plastic)*
ABS	3.8
PP	1.6
PLA	0.6

FLOREON FEATURES:

Certified **Renewable Content**
Low Carbon Footprint

BENEFITS:

- Improved **sustainability** characteristics
- **Safe** and **functional** material
- **Long lasting** and **durable**
- Helps brands meet **sustainability commitments**

*Reference: Vink & Davies 2014

Floreon Application Highlight: Toys

DURABLE GRADE

Floreon is a plant-based plastic that is ideal for toys and other applications requiring **safety** and **durability**.

Floreon **Dura-Tech** offers the mouldability of plastics but with the added benefits of **renewability** and a **low carbon footprint**.

MATERIAL SUBSTITUTION POTENTIAL:
PP and ABS

COMPONENTS:
Entire construction of toys

Material	**Carbon Footprint** (CO2eq/kg plastic)*
ABS	3.8
PP	1.6
PLA	0.6

FLOREON FEATURES:

Certified **Renewable Content**
Low Carbon Footprint
Safe, Non-Toxic
Durable

BENEFITS:

- Improved **sustainability** characteristics
- **Safe** and **functional** material
- **Long lasting** and **durable**
- Helps brands meet **sustainability commitments**

*Reference: Vink & Davies 2014