

**Technical Data Sheet:**  
P250-1160-000

**Masterbatch:**  
PP

## PRODUCT DESCRIPTION

UBQ GHG Neutralizer is a bio-based and circular compound for plastic applications. The additive is primarily used in applications where a positive environmental impact is desired.


## SUSTAINABILITY

UBQ GHG Neutralizer contains a bio-based material made from Third Generation Feedstocks, primarily household waste organics as well as post-consumer recycled plastics. This product directly diverts waste from landfills and oceans while significantly reducing greenhouse gases (GHGs) capturing 11.7 times its weight in CO<sub>2</sub> equivalent emissions. Even at low concentrations, finished parts/applications are carbon neutral or negative.

	<b>Status</b>	Commercial: Active
	<b>Color</b>	Dark Gray
	<b>Processing Method</b>	Injection molding, Extrusion, Compression molding- <b>operational temperature not to exceed 200°C</b> <b>Must be dried before use.</b>
	<b>Application</b>	Consumer Products; Rigid Packaging. Any non-food durable products. Minimum wall thickness for the final product 2.7mm (0.110 inch).

## NOMINAL VALUE

TYPICAL PROPERTIES	UNITS	NOMINAL VALUE				TEST METHOD
		40% UBQ MB	60% UBQ MB	80% UBQ MB	100% UBQ MB	
MFI 230 °C/2.16Kg	g/10 min	24.3	21.6	18.3	10.2	ISO 1133
Density	g/cm <sup>3</sup>	0.945	0.973	1.020	1.051	ISO 1183-1
Tensile Stress at Yield (50mm/min)	MPa	27.2	24.6	22.3	19.8	ISO 527-2
Tensile Strain at Yield (50mm/min)	%	5.1	4.0	3.3	2.5	ISO 527-2
Flexural Modulus (5mm/min)	MPa	1770	1960	2170	2320	ISO 178
Izod Impact Strength (Notched, 23 °C ±2)	Kj/m <sup>2</sup>	1.89	2.31	2.55	2.50	ISO 180
Green House Gas Emissions	CO <sub>2</sub> e/Kg	-0.05	-1.50	-2.94	-4.38	

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#### NOTES

These are typical property values not to be construed as specification limits. This product is not intended for highly regulated applications including food contact, potable water contact, medical and pharmaceutical applications.

#### PROCESSING TECHNIQUES

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

In cases where higher temperatures are required, please contact your appropriate technical contact for support. **Must be dried before use to less than 1% humidity.**

#### CONVEYING


Conveying equipment should be designed to prevent production and accumulation of fines and dust particles that are contained in polymer resins. These particles can under certain conditions, pose an explosion hazard. Conveying systems should be grounded, equipped with adequate filters and regularly inspected for leaks. Conveying equipment should also be designed and calibrated to specific material heating ranges as outlined.

### ADDITIONAL INFORMATION

#### STORAGE

The resin is packed in 25 kg bags and big bags protecting it from contamination. If stored under certain conditions, i.e. large fluctuations in ambient temperature and atmospheric humidity is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the resin before use. Unfavorable storage conditions may intensify the resin's slight characteristic odor.

The material should be stored and protected in a dry, dust free, environment at a temperature below 40°C, avoiding exposure to sunlight, heat and weather conditions to avoid quality deterioration. High atmospheric humidity, heat, exhaust fumes (e.g. forklift) or combination thereof, during storage, can influence the performance of the material in a negative manner. Higher storage temperatures may also reduce the storage shelf time. If stored properly, in original packaging under cool and dry conditions away from heat and direct sunlight, expected shelf life of product is 3 years.

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The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility to carry out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. This information does not remove the obligation of the customer to inspect the material on arrival and immediately notify UBQ of any faults. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

#### HEALTH & SAFETY INFORMATION

For specific information on regulatory compliance please contact the sales representative. Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal precaution to prevent mechanical or thermal injury to the eyes.

Molten material may be degraded if exposed to air during any of the processing and off-line operations. The products of degradation may have an unpleasant odor. In higher concentrations they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes or vapors. Legislation on the control of emissions and pollution prevention should be observed.

The material will burn when exposed to excess heat and oxygen.  
It should be handled and stored away from direct flames and/or ignition sources.  
While burning, the material contributes high heat and may generate a dense black smoke.


For further information about safety in handling and processing, request the available Material Safety Data Sheet (MSDS) per email via [msds@ubqmaterials.com](mailto:msds@ubqmaterials.com). Attach the TDS in question and place the full material name in the subject line and a UBQ representative will revert back with the relevant information. Before using the material, you are advised to consult the MSDS for the applicable handling and use procedures.

#### REGULATORY INFORMATION

For questions and further information, e-mail [tds@ubqmaterials.com](mailto:tds@ubqmaterials.com)

#### COMPANY INFORMATION

For further information regarding the UBQ Materials company, please visit: [www.ubqmaterials.com](http://www.ubqmaterials.com)  
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## DISCLAIMER

Before using a product sold by UBQ Materials, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

SELLER MAKES NO WARRANTY ; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

Users should review the applicable Safety Data Sheet before handling the product.

This product(s) may not be used in the manufacturing of any of the following, without prior written approval by Seller for each specific product and application:

- U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- tobacco related products and applications, electronic cigarettes and similar devices.
- safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

The product(s) may not be used in:

- U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- applications involving permanent implantation into the body;
- life-sustaining medical applications.

All references to U.S. FDA, Health Canada and European Union regulations include another country's equivalent regulatory classification. In addition to the above, UBQ may further prohibit or restrict the use of its products in certain applications and regions. For further information, please contact a UBQ representative.