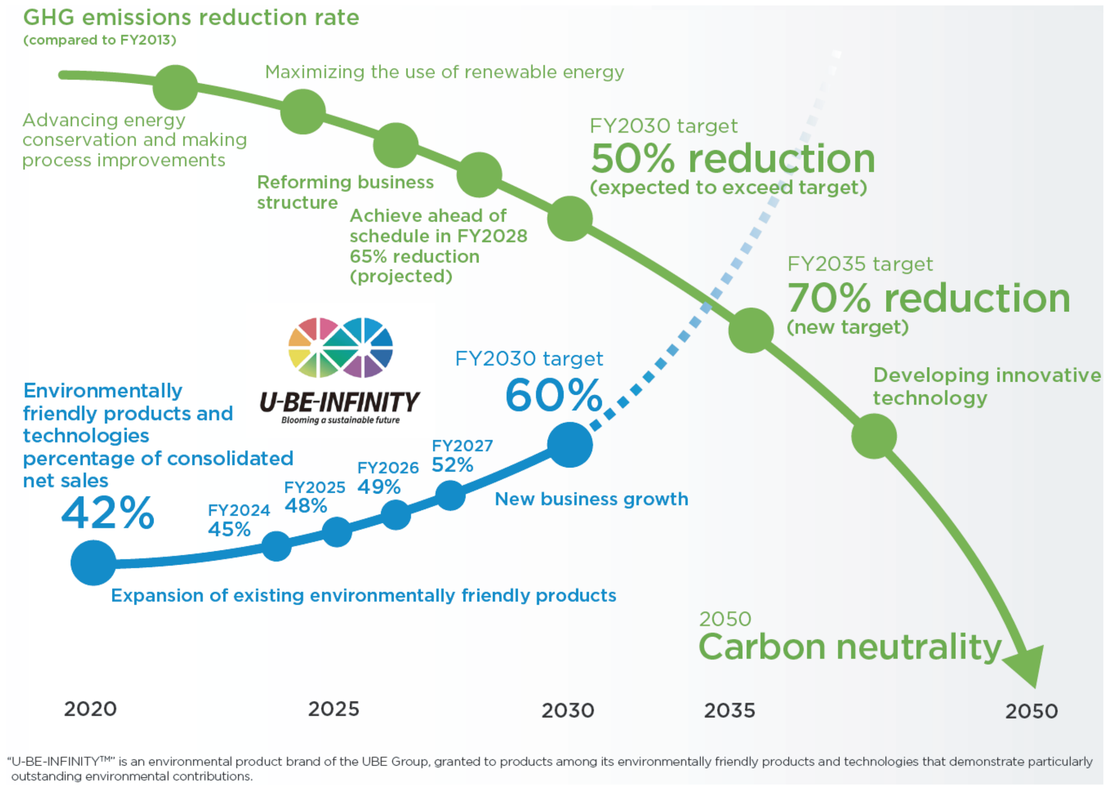
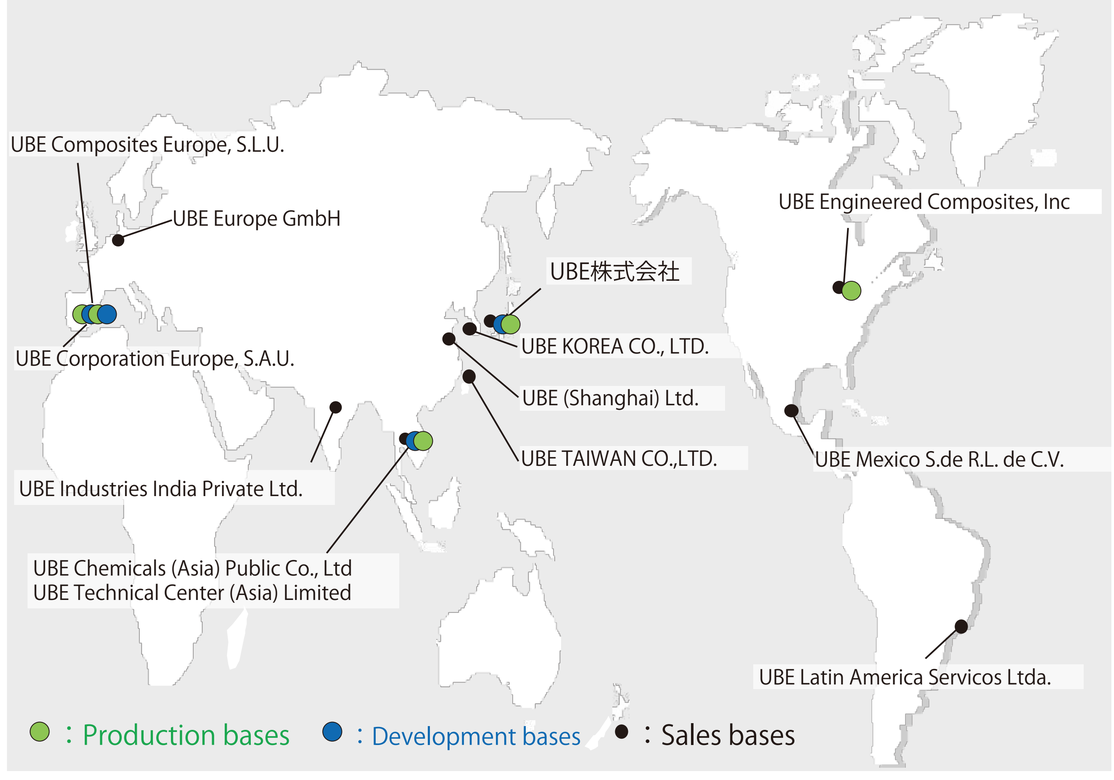
Plant-based material

Biomass Composite Nylon

Addressing Carbon Neutrality



"U-BE-INFINITY™" is an environmental product brand of the UBE Group, granted to products among its environmentally friendly products and technologies that demonstrate particularly outstanding environmental contributions.



Eco-friendly Choice from Raw Materials

GHG Emissions

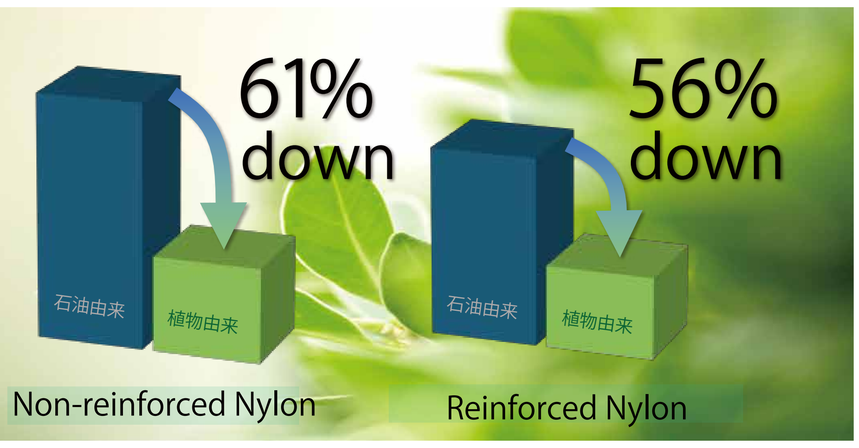
Biomass Nylon

Eco-friendly

Added Value

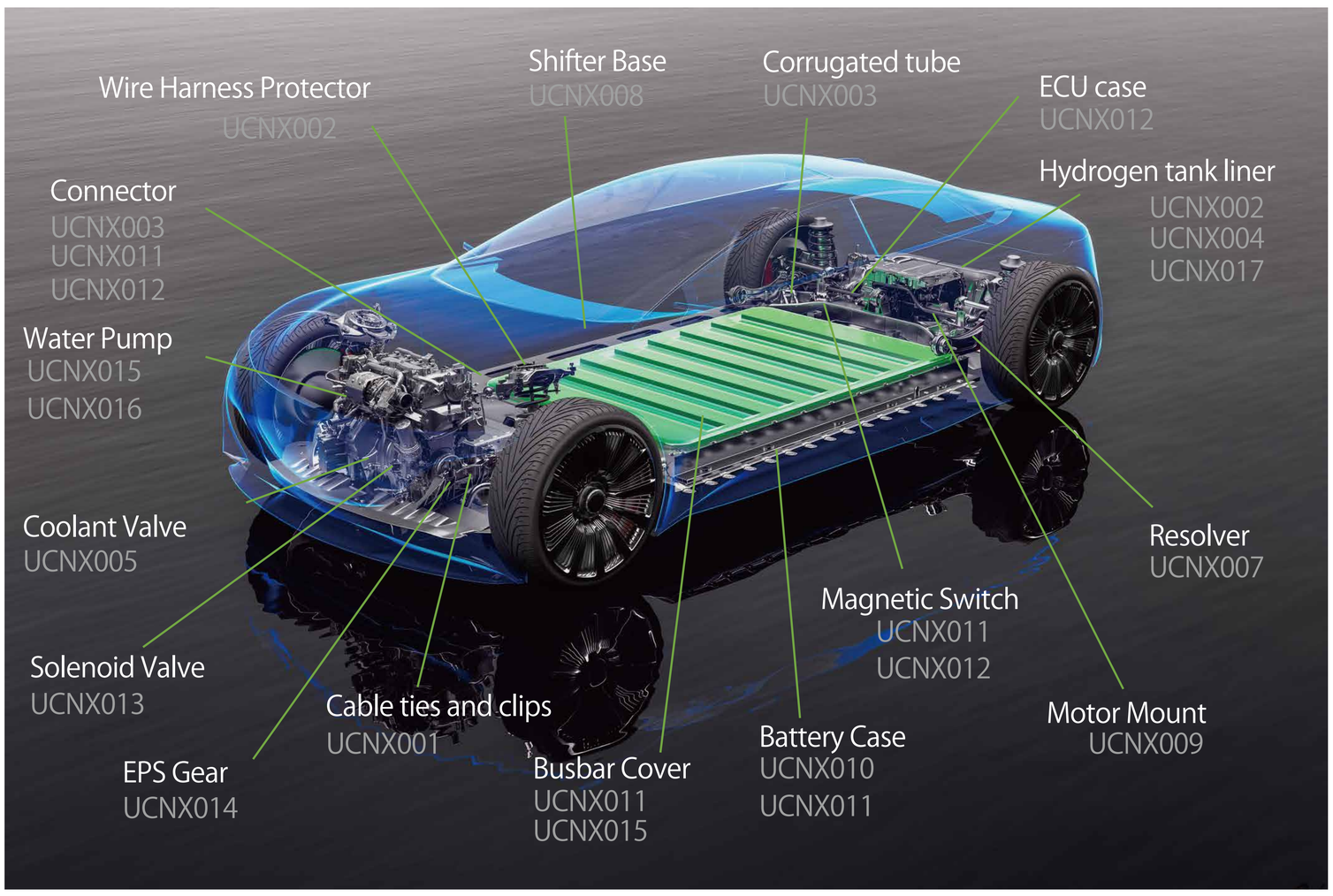
High-Quality

UBE COMPOSITE



Example Applications

Mobility (Automotive)



Infrastructure・Industrial Machinery・Consutruction

Industrial machinery tube
UCNX017

Solor panel
UCNX003

Bearing retainer
UCNX005・014

Tool housings and anchor
UCNX001・005

Electronics（Electrical & Home Appliance）

Hinge・gear・fan
UCNX005・014

Electronic device housing
UCNX009・012・013

Plant-based material

Biomass Composite Nylon

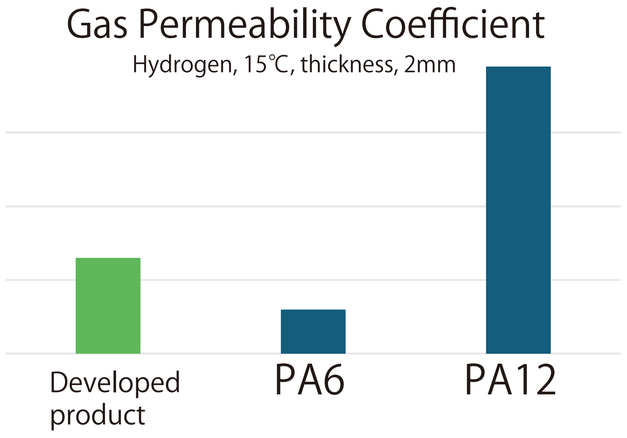
Sustainabl product proposal for storage and transportation

Gas storage apllications

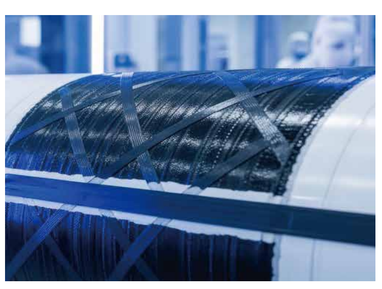
- ☐ Maintains excellent gas barrier properties
- ☐ Balanced design with low-temperature properties
- ☐ Compatible with various molding processes

Gas Permeability Coefficient

Hydrogen, 15℃, thickness, 2mm



Injection molding
UCNX004



Blow molding
UCNX017

Rotational molding
UCNX002

Gas・Liquid transport & power transmission application

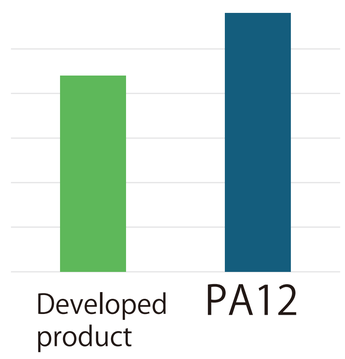
- ☐ Excellent extrudability and tube properties
- ☐ Mono-layer・Multi-layer・Coating extrusion
- ☐ Hydrolysi resistance and low extractables

Refrigerents, Hydrogen,
Natural gas, Synthetic fuels, Air, Oil

UCNX017

Solvent-extractable components

Methanol extraction method

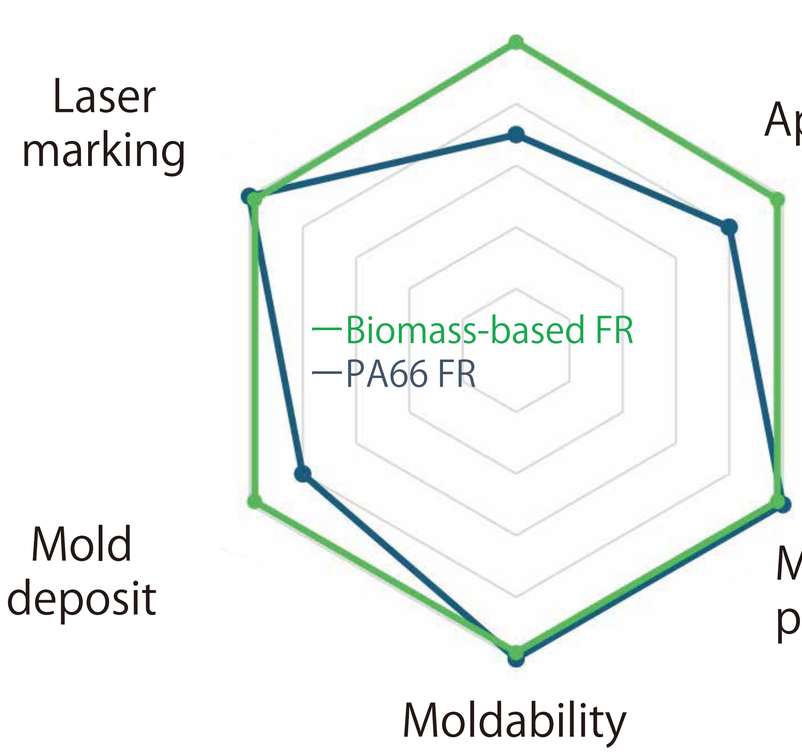


Busbar Cover
UCNX011・15

Corrugated tube
UCNX003

Sustainable product proposal for electrical and electronic

Characteristic comparion (V-0 equivalent)

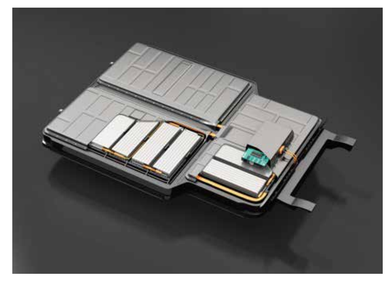


UL94 Flammability Test

Before test	After test	
	Developed Product	Conventional Product
		
-	・V-0 equivalent ・Shape retained ・With flame-shielding capabolity	・Non-compliant ・Deformation & burning ・No flame-shielding capabolity

Example Applications

EV Battery case
UCNX010・11



ECU case
UCNX012

- ☐ Halogen-free, Biomass, Excellent environmental performance
- ☐ High rigidity, High flowability, Applicable to large molded parts