

Biocomposite Torrecot™

Concept

Reducing Environmental Impact by Our Decarbonizing Technology

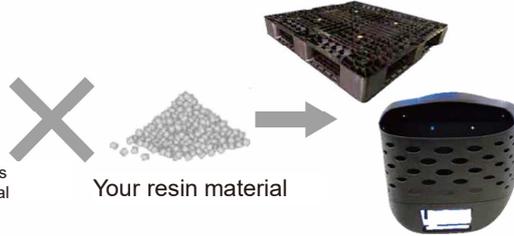


Biomass mark certified



Certified under UBE's internal environmental brand

A masterbatch containing 50wt% biomass in resin

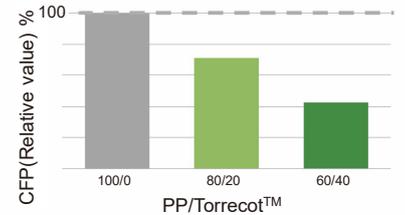


Transforming your materials through dry blending into eco-friendly products

Eco-friendliness



Relative values are shown with PP alone set to 100



Carbon Footprint (CFP) Reduction

Moldability

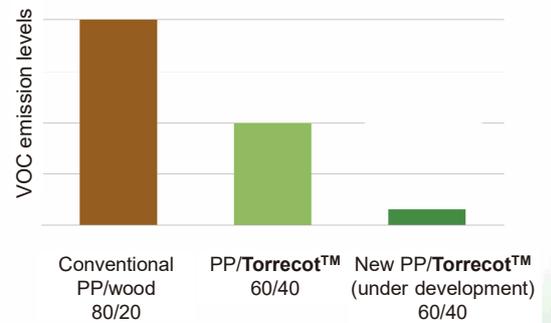
	PP	Torrecot™	Conventional PP/wood	Color	Dark brown	Black or Gray	Highly colorable
Moldability	◎	◎	△	Texture	A natural, subtly rough	Flat and uniform with a modern feel	Uniform and chic coloration
Mold cleanability	◎	○	△				
Ultrasonic bond strength	○	◎	-				

Performance

Item : Unit	High-stiffness	High-flowability	High-impact
PP/Torrecot™	60/40	60/40	60/40
Biomass content : wt%	20	20	20
Flexural strength: MPa	51	38	28
Flexural modulus: MPa	2700	2000	1600
Tensile strength: MPa	30	23	18
Tensile strain: MPa	4	4	7
Impact strength: kJ/m ²	2.2	2.4	6.9
MFR: g/10min(230 °C, 2.16kg)	12	20	18

Equivalent mechanical properties to PP, enabling PP substitution

VOC levels reduced to under 1/10 of conventional PP/wood composite



Materials for Sustainability, Design, and Well-Being