

About Torise

Torise Biomaterials is a manufacturer of compostable and biodegradable products. Since August 2010, we have been developing an entire range of sustainable alternatives to traditional plastics. Our Torise products are naturally made from resins that are derived from plant starches, vegetable oils & compostable polymers that are simply consumed by microorganisms that live within our soils.

Our manufacturing capabilities include a variety of products: modified resins, shopping bags, garbage bags, dog poop bags, produce bags, garment bags, courier bags, gloves, aprons, zip lock bags, cutlery, PLA cups, PLA coated paper bags and tableware.

All our products have the international authorized certifications such as EN13432 (Din Certco), OK Compost, OK Compost HOME (TUV Austria), ASTM D6400 (BPI), AS4736 and AS5810 (ABA).



SUSTAINABILITY

Low Carbon Emission—Renewable Energy Sources



COMPOSTABLE RESINS

Compostable and Biodegradable Resins are materials that can break down naturally, reducing their environmental impact. 'Biodegradable' means they can be broken down by microorganisms over time, while 'compostable' means that they break down into nutrient-rich compost under specific conditions.

These resins are often used as alternatives to traditional plastics, which can persist in the environment for hundreds of years. Compostable and Biodegradable Resins offer a more sustainable option, as they can return to the natural cycle and contribute to soil health when properly disposed of.



TRSP01—Straw Material

Component: PBAT, PLA, Talcum powder
Appearance: Nature White Resin



Items	Standard	Unit	TRSP01
Density	ISO 1183	g/cm³	1.25 ~ 1.35
Melt Flow Index	ISO 1133	g/10min	5 ~ 10
Tensile Strength	ISO 527	MPa	≥35
Elongation at Break	ISO 527	%	≥15
Flexural Modulus	ISO 178	MPa	≥15



TRIJ01—Injection Grade

Component: PBAT, PLA, Talcum powder
Appearance: Nature White Resin



Items	Standard	Unit	TRIJ01
Density	ISO 1183	g/cm³	1.25 ~ 1.35
Melt Flow Index	ISO 1133	g/10min	10 ~ 20
Tensile Strength	ISO 527	MPa	≥40
Elongation at Break	ISO 527	%	≥10
Flexural Modulus	ISO 178	MPa	≥50
Notch Impact Strength	ISO 180	KJ/M²	≥10



TRBF90—Film Grade

Component: PBAT, PLA, Corn starch
Appearance: Light Yellow Resin



Items	Standard	Unit	TRBF90
Density	ISO 1183	g/cm³	1.15~1.2
Melting Point	DSC, 10°C/min	°C	120~130
Melt Flow Index	ISO 1133	g/10min (190°C, 2.16kg)	≤8
Tensile Strength (MD)	ISO 527	MPa	≥20
Tensile Strength (TD)	ISO 527	MPa	≥15
Elongation at Break (MD)	ISO 527	%	≥180
Elongation at Break (TD)	ISO 527	%	≥400
Elmendorf Tear (MD)	ISO 6383	mN	≥1000
Elmendorf Tear (TD)	ISO 6383	mN	≥2500

Suitable for general garbage bags, supermarket shopping bags, poop bags, etc.



TRBF96—Film Grade

Component: PBAT, PLA
Appearance: Nature White Resin



Items	Standard	Unit	TRBF96
Density	ISO 1183	g/cm³	1.18~1.23
Melting Point	DSC, 10°C/min	°C	130-150
Melt Flow Index	ISO 1133	g/10min (190 °C, 2.16kg)	≤10
Tensile Strength (MD)	ISO 527	MPa	≥25
Tensile Strength (TD)	ISO 527	MPa	≥15
Elongation at Break (MD)	ISO 527	%	≥120
Elongation at Break (TD)	ISO 527	%	≥200
Elmendorf Tear (MD)	ISO 6383	mN	≥750
Elmendorf Tear (TD)	ISO 6383	mN	≥1000

Suitable for vegetable and fruit produce bags, garment bags and some high-grade film bags.

