BioPur

MYNUSCO
Biomaterials platform for circular economy

Biomaterials for compostable needs

Your earth friendly material choice to make disposable and single use products

BioPur

CIRCULAR

CLIMATE FRIENDLY MATERIAL

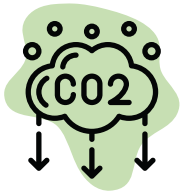
Use of plastics in products with short shelf-life has grown in the last few decades due to versatility, lightweight and its affordability. However, making products with virgin plastics increase CO2 emissions. depletes fossil resources and results in pollution.
Wood, bagasse & other materials that are considered as alternatives to plastics have limitations and often have higher negative environmental impact.
BioPur biocomposites made from crop-residue & fast-renewables offers benefits of plastics at a significantly better environment footprint. They are ideal circular solution, from design to its end of life.

Scan or click here

MANY BENEFITS

REDUCE CO2

Biocomposites enable biogenic carbon to be locked in the products. They are made with repurposed material & composted after use,



CONSERVE RESOURCES

Replacing fossil resources with crop-residue & fast-renewables enable us to conserve limited resources available.

HIGH PERFORMANCE

Offers higher strength and stiffness with durability as good as plastics. Grades with home and industrial composting are available.

GREAT LOOK & FEEL

Natural fibers visible on the surface of the products provide earthy look. Haptics of the products have natural appeal.

END TO END SERVICE

MATERIAL SUPPORT

We support you with material selection & new material development

PROCESS SUPPORT

We support you with moulding & processing of material at your site

PRODUCT SUPPORT

Product development and manufacturing support for your diverse needs

LCA SUPPORT

Proprietary technology to track your product sustainability footprint

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BIOPUR - B GRADES

Material Grade	Bio Content (%)	Tensile Strength (MPA)	Flexural Modulus (GPA)	Elongation (%)	Notched Impact (KJ/M2)	HDT (@ 0.46 MPA, Deg C)	Density	Mold Shrinkage %	Application Areas
B5120	100	40	4.5	1.5	4.0	80 / 130	1.30	< 0.1	Cutlery, Golf tees
B7011	75	30	2.0	7	6.5	80	1.28	<0.1	Cutlery, Coffee Pod
B7020	85	30	2.0	6	6.0	80	1.27	<0.1	Cutlery, Coffee Pod
B6030	40	10	.3	15	10.0	60	1.26	<0.1	Nursery pots, Golf tees
B6300	30	10	0.1	400	24	60	1.28	<0.1	Films, Bags

BIOPUR - M GRADES

Material Grade	Bio Content (%)	Tensile Strength (MPA)	Flexural Modulus (GPA)	Elongation (%)	Notched Impact (KJ/M2)	HDT (@ 0.46 MPA, Deg C)	Density	Mold Shrinkage %	Application Areas
M7002	55	40	3.0	2.0	4	80	1.30	<0.1	Cutlery, Containers, Trays
M7102	25	16	0.6	200	18	70	1.30	<0.1	Straw, food containers
M6004	-	11	0.1	400	20	60	1.32	<0.1	Films, Bags

BIOPUR - N GRADES

Material Grade	Bio Content (%)	Tensile Strength (MPA)	Flexural Modulus (GPA)	Elongation (%)	Notched Impact (KJ/M2)	HDT (@ 0.46 MPA, Deg C)	Density	Mold Shrinkage %	Application Areas
N5002	80	50	2.2	25	11	70	1.26	<0.1	Cutlery, Containers, Trays
N5005	50	30	1.2	200	35	65	1.26	<0.1	Straw, food containers
N6003	30	23	0.5	400	45	60	1.26	<0.1	Films, Bags

BioPur products are composted at the end of their use. We have more than 100 grades to choose from. If your product & process needs are unique, we can customize to suit your requirements.

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COMPOSTABLE
Home and Industrial

All of our BioPur grades of biocomposite materials are made with binders that are certified compostable as per ISO 17088, EN 13432, AS D6400 and AS 4736. These certificates conform to industrial composting standards across different regions.

We have conducted our own study of home composting under ambient temperature conditions with the support of third party, validating the suitability of our materials for home composting. Some of our grades are tested and certified by the third party to biodegrade in standard home composting bins at ambient temperatures.

WIDE RANGE OF APPLICATIONS

RIGID

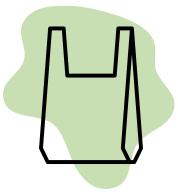
Suitable for injection moulded rigid applications such as spoons, forks, knives

SEMI FLEXIBLE

Suitable for extruded or thermoformed semi-flexible applications such as straw

FLEXIBLE

Suitable for thin walled and extruded flexible applications such as carry bags



MISCELLANEOUS

Suitable many durable applications that are used in dry environment, such as toys

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Choosing the right material may not be easy. We are happy to share our experience to help you with your choice. For more information, visit www.mynusco.com, email us at marketing@mynusco.com, or visit our office in Mumbai or Bengaluru.