TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B22.101

PRODUCT DESCRIPTION

Biocore B22_HS_D2C is a high-performance, heat-sealable, tubular blown co-extruded film engineered to deliver exceptional flexibility, durability, and reliable containment for wet and dry waste management applications. Combining high elongation with robust heat-seal strength, the film is designed to withstand heavy loads, handling stresses, and mechanical deformation while maintaining bag integrity. Its dependable sealing performance helps minimize leakage and prevent bag failure, ensuring secure and hygienic waste containment during handling, collection, and disposal. Designed for consistent performance and efficient bag conversion, Biocore B22_HS_D2C offers a versatile and durable solution for garbage bags across household, commercial, and institutional waste management applications.

TECHNICAL PROPERTIES

PARAMETERS	UNIT	SMALL	MEDIUM	LARGE
Film thickness (nominal)	µm	25	25	30
Tensile strength, MD	MPa	8-15	8-15	9-17
Tensile strength, CD	MPa	5-7	5-7	5-8
Elongation at break, MD	%	>160	>160	>160
Elongation at break, CD	%	>130	>130	>130
Seal strength	gf/25 mm	>350	>350	>420
Load carrying capacity	-	Upto 3.5 kg	Upto 4.5 Kg	Upto 6.5 Kg
Fragrance	-	Rose, Lavender, Lime	Rose, Lavender, Lime	Rose, Lavender, Lime
Colour Options		Blue, Green & Black	Blue, Green & Black	Blue, Green & Black

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



GARBAGE BAGS

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B13_5LA.101

PRODUCT DESCRIPTION

Biocore B13_5LA is a cost-effective, compostable film engineered to deliver an optimal balance of softness, mechanical strength, and sealing performance. Its distinctive soft touch feel enhances consumer comfort, making it particularly suitable for packaging applications involving close consumer contact. Designed for efficient processing on existing packaging lines, the film offers excellent tensile strength and elongation, complemented by reliable tear resistance, peel strength, and consistent seal integrity. Combining functional performance with competitive economics and sustainability, Biocore B13_5LA is an ideal solution for sanitary product overwraps and protective packaging applications, enabling brands to transition towards more sustainable packaging without compromising functionality, consumer experience, or cost competitiveness.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	TYPICAL VALUE	
Thickness (±8%)	-	µm	30	50
Tensile Strength @MD	ASTM D882	Mpa	15-18.5	20.5-22.5
Tensile Strength @TD	ASTM D882	Mpa	13.5-17	18-21.5
Tensile Elongation @TD	ASTM D882	%	>250	>300
Tensile Elongation, TD	ASTM D882	%	>400	>500
Seal Strength	ASTM F88	gf/25mm	>1000	>1000

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

ISO ISO 17556 APPLIED — Biodegradation within **2 years** in soil under ambient conditions

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



SANITARY PACKS



BEARING



STEERING WHEEL



SPARE PARTS

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B13.101

PRODUCT DESCRIPTION

Biocore B13_LAR1 is a high-performance, blown co-extruded, heavy-duty film engineered to deliver exceptional strength, durability, and load-bearing performance for demanding industrial garbage bag applications. Combining high machine-direction tensile strength, superior ductile elongation,and excellent tear resistance, the film offers outstanding impact absorption and shake endurance, ensuring reliable bag integrity even under heavy loads and rigorous handling conditions. Designed to withstand the stresses of lifting, dragging, and accidental drops, Biocore B13_LAR1 delivers dependable performance and enhanced resistance to mechanical failure, making it an ideal solution for heavy-duty waste management and industrial garbage bag applications.

TECHNICAL PROPERTIES

PARAMETERS	STANDARD	UNIT	TYPICAL VALUES	
Thickness	-	µm	50	60
Tensile strength, MD	ASTM D882	MPa	20	15-18.5
Tensile strength, CD	ASTM D882	MPa	11	13-14.5
Elongation, MD	ASTM D882	%	133	172-189
Elongation, CD	ASTM D882	%	275	270-317
Seal strength (machine)	ASTM F88	gf/25 mm	1659	2900
Water carrying capacity	-	-	Upto 25 Kg	Upto 35 Kg

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** UNDER CONTROLLED AEROBIC COMPOSTING CONDITIONS.

ISO ISO 17556 APPLIED — Biodegradation within **2 years** IN SOIL UNDER AMBIENT CONDITIONS

CO_2 — **39%** Lower Carbon Emission COMPARED TO CONVENTIONAL LDPE FILM

2.5 years Shelf Life UNDER NORMAL ROOM-TEMPERATURE STORAGE

APPLICATIONS



LARGE GARBAGE BAG

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOPRIME**

V1.B21MB.101

PRODUCT DESCRIPTION

Bioprime B21 MB is a high-performance, transparent, blown co-extruded film engineered to deliver an optimal combination of mechanical strength, durability, and packaging security for e-commerce and courier applications. Designed to provide reliable protection against handling stresses and external elements during storage and transportation, the film helps maintain package integrity throughout the distribution cycle. Its robust peel bond strength supports tamper-evident sealing, enabling visible identification of unauthorized access and enhancing shipment security. Combining transparency, protective performance, and dependable sealing characteristics, Bioprime B21 MB offers a versatile and reliable solution for transparent mailer bags and e-commerce courier packaging.

TECHNICAL PROPERTIES

PROPERTY	STANDARD	UNIT	TECHNICAL VALUES
Tensile strength, MD	ASTM D882	MPa	20.5-24
Tensile strength, TD	ASTM D882	MPa	18-22.5
Elongation at break, MD	ASTM D882	%	>400
Elongation at break, TD	ASTM D882	%	>500
Seal strength	ASTM F88	gf/25 cm	>1500
Hot Melt Bond	-	gf/7 cm	>800
Bond Adhesion	-	-	Inseparable

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** UNDER CONTROLLED AEROBIC COMPOSTING CONDITIONS.

ISO ISO 17556 APPLIED — Biodegradation within **2 years** IN SOIL UNDER AMBIENT CONDITIONS

CO_2 **39%** Lower Carbon Emission COMPARED TO CONVENTIONAL LDPE FILM

2.5 years Shelf Life UNDER NORMAL ROOM-TEMPERATURE STORAGE

APPLICATIONS



COURIER BAG

Environmental and Regulatory Features:
BIOPRIME IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOPRIME**

V1.BB.21.101

PRODUCT DESCRIPTION

Bioprime B21 is a high-performance, transparent, blown co-extruded film engineered to deliver an optimal balance of mechanical strength, flexibility, and protective performance. Combining balanced tensile strength, excellent elongation, and reliable tear resistance, the film is designed to withstand everyday handling stresses while maintaining packaging integrity. Its transparency ensures clear product visibility, while providing effective protection against dust and external contaminants during storage, handling, and transportation. Versatile and adaptable across multiple applications, Bioprime B21 is ideally suited for garment bags, luggage protection covers, and fruit and vegetable (F&V) pouches, offering a dependable combination of durability, functionality, and product protection.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	TYPICAL VALUE		
Thickness [±8%]	-	µm	20	25	30
Tensile Strength@Break, MD	ASTM D882	Mpa	15-25	20-25	38-33
Tensile Strength@Break, TD	ASTM D882	Mpa	15-20	20-30	32-29
Tensile Elongation, MD	ASTM D882	%	>100	>150	>200
Tensile Elongation, TD	ASTM D882	%	>200	>250	>350
Seal Strength	ASTM F88	gf/25mm	>1500	>1500	>1500

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



SWITCH BOARD COVER



EXHAUST FAN COVER



VEGETABLE PACKAGING

Environmental and Regulatory Features:
BIOPRIME IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOPRIME**

V1.B21.101

PRODUCT DESCRIPTION

Bioprime B21SF is a high-performance, transparent, blown co-extruded film engineered to deliver enhanced shelf-life performance, mechanical strength, and reliable product protection across diverse packaging applications. Combining balanced tensile strength, excellent elongation, and consistent tear resistance, the film offers durability and flexibility to withstand handling stresses while maintaining packaging integrity. Its excellent transparency ensures clear product visibility, while its protective properties help shield packaged products from dust and external contaminants during storage and transportation. Ideally suited for garment bags, luggage protection covers, and fruit and vegetable (F&V) pouches, Bioprime B21SF offers a versatile packaging solution that combines extended product protection, functional reliability, and efficient processing.

TECHNICAL PROPERTIES

PARAMETERS	STANDARD	UNIT	TYPICAL VALUES		
Thickness [±8%]	-	µm	20	25	30
Tensile Strength@ Break, MD	ASTM D882	MPa	15-25	20-25	38-33
Tensile Strength@ Break, TD	ASTM D882	MPa	15-20	20-30	32-29
Tensile Elongation, MD	ASTM D882	%	>100	>150	>200
Tensile Elongation, TD	ASTM D882	%	>200	>250	>350
Seal Strength	ASTM F88	gf/25mm	>1500	>1500	>1500
Shelf Life	ASTM D4329	-	Upto 4 Years		

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



LUGGAGE COVER



BACKPACK COVER



HANDBAG COVER

Environmental and Regulatory Features:
BIOPRIME IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B22HSHD2.101

PRODUCT DESCRIPTION

Biocore B22HSHD2 is a high-performance, blown-extruded compostable film engineered to deliver exceptional load-bearing strength, durability, and reliable containment for demanding waste management applications. Designed to support loads exceeding 15 kg without leakage, the film combines balanced tensile strength, excellent elongation, and dependable tear resistance to withstand rigorous handling and mechanical stresses while maintaining bag integrity. Its robust construction and reliable sealing performance help prevent leakage and bag failure, ensuring secure and hygienic waste containment during handling, collection, and disposal. Offering additional protection against dust and external contaminants during storage and transportation, Biocore B22HSHD2 provides a durable, functional, and environmentally responsible solution for heavy-duty garbage bags across household, commercial, and industrial applications.

TECHNICAL PROPERTIES

PARAMETERS	STANDARD	UNIT	TYPICAL VALUES
Thickness [±8%]	-	µm	50
Tensile Strength @ MD	ASTM D882	MPa	10-12
Tensile Strength @ TD	ASTM D882	Mpa	8-10
Elongation @ MD	ASTM D882	%	>300
Elongation @ TD	ASTM D882	%	>350
Tear Strength @ MD	ASTM D1922	mN	>6000
Tear Strength @ TD	ASTM D1922	mN	>8000
Seal Strength	ASTM F88	gf/25mm	>1000
Weight Capacity	-	-	upto 15 Kg
Colour Options	-	-	Blue, Green & Black

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



LARGE GARBAGE BAGS

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOPRIME**

V1.B29OTR.101

PRODUCT DESCRIPTION

Bioprime B29_OTR is a high-performance oxygen-barrier film engineered to deliver effective protection against oxygen ingress, helping minimize oxidation and preserve the quality and integrity of packaged products. Designed for applications requiring enhanced barrier performance, the film combines reliable tensile strength, excellent elongation, and dimensional stability to ensure consistent performance during converting, packaging, and handling operations. Its dependable seal strength helps maintain package integrity, while its oxygen-barrier properties support product freshness, quality retention, and shelf-life protection during storage and transportation. Combining barrier functionality, mechanical durability, and processing versatility, Bioprime B29_OTR offers an advanced solution for oxygen-sensitive flexible packaging applications where product preservation and packaging reliability are essential.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	Technical Values	
Thickness (±8%)	-	µm	20	25
Tensile Strength @Break, MD	ASTM D882	Mpa	15-25	20-25
Tensile Strength @Break, TD	ASTM D882	Mpa	15-20	20-30
Tensile Elongation, MD	ASTM D882	%	>100	>150
Tensile Elongation, TD	ASTM D882	%	>200	>250
Seal Strength	ASTM F88	gf/25mm	>1500	>1500
OTR	23 °C / 0 %RH	ml/m^2-day	<10	<10
Application Temperature	-	-	Upto 70° C	Upto 70° C

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

ISO 17556 APPLIED — Biodegradation within **2 years** in soil under ambient conditions

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

FDA U.S. Food & Drug Administration — Making it suitable for food packaging.

IS ISO 9845 COMPLIANCE — Complies with migration limits **SAFE FOR FOOD CONTACT**

APPLICATIONS



EDIBLE OIL



ROSTED NUTS

Environmental and Regulatory Features:
BIOPRIME IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOPRIME**

V1.B29.101

PRODUCT DESCRIPTION

Bioprime B29 is a high-performance film engineered for secondary converting processes, including lamination and coating, offering an optimal combination of mechanical strength, flexibility, and dimensional stability. Designed to deliver reliable tensile strength and elongation, the film maintains structural integrity throughout downstream processing and packaging operations. Its excellent dimensional stability supports consistent converting performance, while dependable seal strength helps ensure secure package integrity and effective protection of packaged products. Combining processing versatility, mechanical reliability, and sealing performance, Bioprime B29 serves as an ideal substrate for a wide range of laminated and coated flexible packaging applications.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	Technical Values	
Thickness (±8%)	-	µm	30	50
Tensile Strength @Break, MD	ASTM D882	Mpa	20-25	30-35
Tensile Strength @Break, TD	ASTM D882	Mpa	20-25	30-40
Tensile Elongation, MD	ASTM D882	%	>200	>250
Tensile Elongation, TD	ASTM D882	%	>250	>300
Seal Strength	ASTM F88	gf/25mm	>2500	>2500
Application Temperature	-	-	Upto 70° C	Upto 70° C
OTR	ASTM D3985	cc/m2/24hr	>1000	>1000
WVTR	ASTM F1249	g/m2/24hr	<100	<100

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room temperature storage

FDA U.S. FOOD & DRUG ADMINISTRATION — Making it suitable for food packaging.

IS ISO 9845 COMPLIANCE — Complies with migration limits **SAFE FOR FOOD CONTACT**

APPLICATIONS



PULSES



RICE



SUGAR



SALT

Environmental and Regulatory Features:
BIOPRIME IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOPRIME**

V1.B29WVTR.101

PRODUCT DESCRIPTION

Bioprime B29_WVTR is a high-performance film engineered to minimize water vapor transmission, safeguarding packaged products against humidity and moisture-related deterioration. Combining reliable tensile strength, excellent elongation, and dimensional stability, the film ensures consistent performance during converting, packaging, and handling operations. Its dependable seal strength helps maintain package integrity, while its protective properties support product quality, stability, and extended shelf life during storage and transportation. Designed for moisture-sensitive applications, Bioprime B29_WVTR delivers an optimal combination of barrier performance, mechanical durability, and processing versatility, making it a reliable solution for advanced flexible packaging applications.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	Technical Values	
Thickness (±8%)	-	µm	30	50
Tensile Strength @Break, MD	ASTM D882	Mpa	20-25	30-35
Tensile Strength @Break, TD	ASTM D882	Mpa	20-25	30-40
Tensile Elongation, MD	ASTM D882	%	>200	>250
Tensile Elongation, TD	ASTM D882	%	>250	>300
Seal Strength	ASTM F88	gf/25mm	>2500	>2500
WVTR	38 ˚C / 90 %RH	cc/m^2-day	<10	<10
Application Temperature	-	-	Upto 70˚ C	Upto 70˚ C

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

ISO ISO 17556 APPLIED — Biodegradation within **2 years** in soil under ambient conditions

CO_2 — **39%** Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

FDA U.S. FOOD & DRUG ADMINISTRATION — Making it suitable for food packaging.

IS ISO 9845 COMPLIANT — Complies with migration limits **SAFE FOR FOOD CONTACT**

APPLICATIONS



SUGAR PACKAGING



SALT PACKAGING



JAGGERY PACKAGING

Environmental and Regulatory Features:
BIOPRIME IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOPRIME**

V1.B39.101

PRODUCT DESCRIPTION

Bioprime B39 is a high-performance shrink film engineered to deliver excellent shrink ability, mechanical strength, and reliable product protection across a wide range of packaging applications. Designed to shrink uniformly in both the machine direction (MD) and transverse direction (TD) upon heat application, the film conforms closely to packaged products, ensuring a secure, compact, and tight fit. Its robust tensile strength maintains film integrity throughout the shrinking process, while high dart impact resistance provides enhanced protection against sudden impacts and mechanical stresses during packaging, handling, and transportation. Combining efficient shrink performance, durability, and dependable product containment, Bioprime B39 offers a versatile solution for shrink-wrapping applications where packaging efficiency, product stability, and protective performance are essential.

TECHNICAL PROPERTIES

PARAMETERS	STANDARD	UNIT	TYPICAL VALUES
Thickness [±8%]	-	µm	30
Tensile Strength@Break, MD	ASTM D882	MPa	20-25
Tensile Strength@Break, TD	ASTM D882	MPa	20-24
Tensile Elongation, MD	ASTM D882	%	80-180
Tensile Elongation, TD	ASTM D882	%	60-140
Dart Impact	ASTM D1709	gm	>500
MD Shrink	ASTM D2732	%	25-35
TD Shrink	ASTM D2732	%	30-40

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



COSMETIC OVERWRAP



SHAMPOO OVERWRAP



BOTTLE OVERWRAP

Environmental and Regulatory Features:
BIOPRIME IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B41.101

PRODUCT DESCRIPTION

Biocore B41 is a high-performance, blown co-extruded compostable film engineered to deliver exceptional sealing reliability, mechanical durability, and processing efficiency for milk and liquid pouch packaging applications. Combining high seal integrity, excellent tear resistance, and dependable hot tack performance, the film is designed to minimize leakage and maintain package integrity throughout filling, handling, storage, and transportation. Its excellent flexibility and consistent machinability enable smooth processing on existing form-fill-seal (FFS) lines, supporting efficient production without requiring significant equipment modifications. Offering a compelling balance of functionality, scalability, and sustainability, Biocore B41 provides a compostable alternative to conventional plastic films without compromising packaging performance or operational efficiency.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	Typical Value			
Thickness	-	µm	50 ±10%	68 ±10%	76 ±8%	88 ±8%
Tensile Strength @Break, MD	ASTM D882	Mpa	28-30	32-33	35-50	40-60
Tensile Strength @Break, TD	ASTM D882	Mpa	22-32	30-32	32-45	35-55
Tensile Elongation, MD	ASTM D882	%	>400	>400	>400	>400
Tensile Elongation, TD	ASTM D882	%	>400	>400	>400	>400
Seal Strength	ASTM F88	gm/2.5cm	>2000	>2000	>2000	>2000
Tear Strength, MD	ASTM D1922	mN	2000-3300	2700-4500	3000-5000	4000-7000
Tear Strength, TD	ASTM D1922	mN	4000-7200	5400-9800	6000-11000	6000-12000
Dart Impact	IS 2508	gms	>500	>700	>800	>900
COF (Inside-Inside)	ASTM D1894	-	0.17-0.18	0.22	0.17-0.22	0.17-0.22
COF (Inside-Metal)	ASTM D1894	-	0.19-0.20	0.16-0.18	0.16-0.20	0.16-0.20
Migration Limit	IS 9845 (1998)	-	-	Under Limit		
Shelf Life (Pasteurized Milk)	FSSAI	-	-	3 Days		

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

ISO 17556 APPLIED — Biodegradation within **2 years** in soil under ambient conditions

CO_2 — **39%** Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

FDA U.S. FOOD & DRUG ADMINISTRATION — Making it suitable for food packaging.

IS ISO 9845 COMPLIANCE — Complies with migration limits **SAFE FOR FOOD CONTACT**

APPLICATIONS



MILK



CURD



BUTTER MILK

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOPRIME**

V1.B49.101

PRODUCT DESCRIPTION

Bioprime B49 is a high-performance Volatile Corrosion Inhibitor (VCI) film engineered to deliver advanced corrosion protection and mechanical durability for metal components and industrial packaging applications. Utilizing controlled -release VCI technology, the film emits corrosion-inhibiting vapors within the enclosed package, forming a protective layer on exposed metal surfaces to help prevent rust and oxidation during storage and transportation. Combining reliable tensile strength, excellent tear resistance, and dependable peel strength, the film provides robust protection against handling stresses while maintaining packaging integrity. Designed for industrial components, automotive parts, and precision metal products, Bioprime B49 offers an effective and convenient solution for corrosion prevention, long-term storage, and secure transportation.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	TYPICAL VALUE
Thickness	-	µm	60
Tensile Strength, MD	ASTM D882	Mpa	25-30
Tensile Strength, TD	ASTM D882	Mpa	20-22.5
Elongation, MD	ASTM D882	%	>300
Elongation, TD	ASTM D882	%	>300
Tear Strength, MD	ASTM D1922	mN	>2000
Tear Strength, TD	ASTM D1922	mN	>7000
Seal Strength	ASTM F88	gf/25mm	>1800
Corrosion Inhibition	ASTM B117-19	-	Pass
Colour options	-	-	Blue, White & Peach

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



METAL PARTS



BEARING



SPARE PARTS

Environmental and Regulatory Features:
BIOPRIME IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOPRIME**

V1.B50.101

PRODUCT DESCRIPTION

Bioprime B50 is a high-performance flexible packaging film engineered to deliver an optimal combination of product freshness, reliable sealing, and cost-efficient processing for bakery applications, including bread, dry cakes, and other baked goods. Its effective barrier properties help minimize oxygen and moisture transmission, preserving product quality and supporting extended shelf life. Combining dependable peel strength, balanced tensile strength, excellent elongation, and reliable tear resistance, the film ensures secure packaging integrity and smooth performance on existing packaging lines. Designed to enhance operational efficiency, minimize packaging-related product losses, and support consistent production throughput, Bioprime B50 offers a compelling commercial advantage by helping brands protect product value, reduce avoidable wastage, and optimize overall packaging economics without compromising quality or consumer experience.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	TECHNICAL VALUE
Thickness	----	µm	30
Tensile Strength @Break, MD	ASTM D882	Mpa	15-25
Tensile Strength @Break, TD	ASTM D882	Mpa	15-20
Tensile Elongation, MD	ASTM D882	%	>250
Tensile Elongation, TD	ASTM D882	%	>300
Seal Strength	ASTM F88	gm/2.5cm	>1500
Shelf life of Bread	-	-	3 Days
OTR	ASTM D3985	cc/m2/24hr	<1000
WVTR	ASTM F1249	g/m2/24hr	<100

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



BREAD PACKAGING

Environmental and Regulatory Features:
BIOPRIME IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B55.101

PRODUCT DESCRIPTION

Biocore B55 is a lightweight, blown co-extruded film engineered to deliver an optimal balance of durability, flexibility, and material efficiency for protective packaging, overwraps, and protective pouches. Designed to safeguard products against dust, environmental exposure, and handling stresses, the film helps maintain package integrity throughout storage and transportation. Its resistance to wear and tear minimizes the risk of product damage while ensuring reliable protection across diverse applications. Combining versatile functionality with cost-efficient performance, Biocore B55 enables brands to optimize material consumption, streamline packaging operations, and reduce overall packaging costs without compromising product protection.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	TYPICAL VALUE
Thickness	-	µm	25
Tensile Strength, MD	ASTM D882	Mpa	10-14
Tensile Strength, CD	ASTM D882	Mpa	6-9
Elongation at break, MD	ASTM D882	%	>150
Elongation at break, CD	ASTM D882	%	>250
Seal Strength	ASTM F88	gf/2.5mm	>500

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

ISO 17556 APPLIED — Biodegradation within **2 years** in soil under ambient conditions

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

FDA U.S. FOOD & DRUG ADMINISTRATION — Making it suitable for food packaging.

IS 9845 COMPLIANT — Complies with migration limits **SAFE FOR FOOD CONTACT**

APPLICATIONS



SWITCH BOARD COVER



EXHAUST FAN COVER

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B55MB.101

PRODUCT DESCRIPTION

Biocore B55 MB is a high-performance, blown co-extruded film engineered for mailer bags used in FMCG protective packaging and e-commerce courier applications. Combining robust seal strength, balanced tensile properties, and high elongation, the film ensures secure package closure and structural integrity throughout filling, sorting, handling, and transportation. Its flexibility and mechanical durability help withstand the rigours of distribution while minimizing the risk of package failure and product damage. Designed for efficient processing and material optimization, Biocore B55 MB offers a cost-effective packaging solution that enhances shipment security, supports operational efficiency, and delivers dependable product protection across the supply chain.

TECHNICAL PROPERTIES

PARAMETERS	STANDARD	UNIT	35 µm
Tensile strength, MD	ASTM D882	Mpa	12-14
Tensile strength, CD	ASTM D882	MPa	8-10
Elongation at break, MD	ASTM D882	%	>280
Elongation at break, CD	ASTM D882	%	>330
Seal Strength	ASTM F88	gf/2.5cm	>800
Color options	-	-	Beige, orange, green, white, purple etc

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

ISO 17556 APPLIED — Biodegradation within **2 years** in soil under ambient conditions

CO_2 — **39%** Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



MAILER BAG



BEARING

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B71.101

PRODUCT DESCRIPTION

Biocore B71 is a high-performance, blown co-extruded film engineered for secure and durable mailer bag applications across e-commerce, courier, and protective packaging segments. Designed for compatibility with hot-melt adhesive sealing systems, the film enables strong, tamper-evident closures that help identify unauthorized access and safeguard shipment integrity. Its excellent opacity ensures complete concealment of packaged contents, enhancing privacy and security throughout the distribution cycle. Combining high tensile strength, excellent elongation, and reliable tear and dart impact resistance, Biocore B71 withstands rigorous handling conditions during sorting, shipping, and delivery. Offering an optimal balance of packaging security, mechanical durability, and processing efficiency, the film provides a cost-effective solution for dependable product protection across modern supply chains.

TECHNICAL PROPERTIES

PARAMETERS	STD.	UNIT	TYPICAL VALUE		
Thickness	-	µm	40	50	60
Tensile Strength@MD	ASTM D882	Mpa	25-30	25-30	25-30
Tensile Strength@TD	ASTM D882	Mpa	20-22.5	20-22.5	20-22.5
Elongation@MD	ASTM D882	%	>300	>300	>300
Elongation@TD	ASTM D882	%	>300	>300	>300
Tear Strength@MD	ASTM D1922	mN	>2000	>2000	>2000
Tear Strength@TD	ASTM D1922	mN	>7000	>7000	>7000
Dart Impact	-	gm	>400	>400	>500
Seal Strength	ASTM F88	gf/25mm	>1800	>1800	>1800
Hot Melt Bond	-	gm/7mm	>800	>800	>800
Bond Adhesion	-	-	Inseparable		
Load Bearing Capacity	-	kg	Upto 4	Upto 8	Upto 8

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

ISO 17556 APPLIED — Biodegradation within **2 years** in soil under ambient conditions

39% Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



MAILER BAG

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B80.101

PRODUCT DESCRIPTION

Biocore B80 is a high-performance compostable film engineered to deliver exceptional stiffness, dimensional stability, and efficient machinability for demanding flexible packaging applications. Its high tensile modulus provides excellent structural rigidity and shape retention, ensuring consistent performance during converting, handling, and packaging operations. Featuring a low coefficient of friction, the film enables smooth movement across machine components and metal surfaces, supporting high-speed processing with reduced friction-related disruptions. Complemented by reliable tensile strength and balanced elongation, Biocore B80 offers an optimal combination of mechanical performance, processing efficiency, and sustainability, making it a versatile alternative to conventional plastic films for applications requiring rigidity and precision.

TECHNICAL PROPERTIES

PARAMETERS	STANDARD	UNIT	TYPICAL VALUES	
Thickness [±8%]	-	µm	25	50
Tensile Strength@Break, MD	ASTM D882	MPa	14-17	15-17.5
Tensile Strength@Break, TD	ASTM D882	MPa	10-13.5	12.5-15
Tensile Elongation, MD	ASTM D882	%	>200	>250
Tensile Elongation, TD	ASTM D882	%	>300	>400
Tensile Modulus, MD	ASTM D882	MPa	>400	>450
Tensile Modulus, TD	ASTM D882	MPa	>150	>175
Static COF (Film to Metal)	ASTM D1894	-	0.2-0.3	0.2-0.3
Kinetic COF (Film to Metal)	ASTM D1894	-	0.2-0.3	0.2-0.3

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

ISO 17556 APPLIED — Biodegradation within **2 years** in soil under ambient conditions

CO_2 — **39%** Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room-temperature storage

APPLICATIONS



LINERS



SECONDARY PACKAGING FOR FMCG

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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TECHNICAL DATA SHEET

BAMBREW **BIOCORE**

V1.B90.101

PRODUCT DESCRIPTION

Biocore B90 is a lightweight, durable, blown co-extruded film engineered for protective packaging, overwraps, and protective pouches, including applications requiring cold storage and temperature-controlled transportation. Designed to provide reliable protection against dust, environmental exposure, and mechanical stresses, the film helps maintain package integrity throughout storage, handling, and distribution. Its flexibility and resistance to wear and tear support dependable performance under demanding logistics conditions, including refrigerated environments. Combining versatile functionality, material efficiency, and cold-storage suitability, Biocore B90 offers a cost-effective packaging solution that helps minimize product damage, optimize material consumption, and ensure secure product protection across the supply chain.

TECHNICAL PROPERTIES

PARAMETERS	STANDARD	UNIT	TYPICAL VALUES
Thickness	-	µm	30
Density	-	g/cc	~1.1
Tensile strength, MD	ASTM D882	MPa	15-20
Tensile strength, CD	ASTM D882	MPa	10-15
Elongation at break, MD	ASTM D882	%	>150
Elongation at break, CD	ASTM D882	%	>250
Seal Strength	ASTM F88	gf/25mm	>750
Tear Strength, MD	-	mN	>2000
Tear Strength, CD	-	mN	>6000
Cold Temperature Durability	-	-	Upto (-20 ˚ C)
OTR	ASTM D3985	cc/m2/24hr	>1000
WVTR	ASTM F1249	g/m2/24hr	<10

FOR ANY SPECIAL REQUIREMENTS, PLEASE CONTACT BAMBREW'S TECHNICAL TEAM.

ISO 17088 COMPLIANT — **90%** Biodegradation within 180 days under industrial composting conditions.

ISO EN ISO 14855 APPLIED — Biodegradation within **1 year** under controlled aerobic composting conditions.

ISO 17556 APPLIED — Biodegradation within **2 years** in soil under ambient conditions

CO_2 — **39%** Lower Carbon Emission compared to conventional LDPE film

2.5 years Shelf Life under normal room temperature storage

FDA U.S. Food & Drug Administration — Making it suitable for food packaging.

IS ISO 9845 COMPLIANT — Complies with migration limits **SAFE FOR FOOD CONTACT**

APPLICATIONS





FROZEN

Environmental and Regulatory Features:
BIOCORE IS A COMPOSTABLE FILM.

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