SECTION 1: PRODUCT DESCRIPTION

HENGLIECO KHB21 is PBAT (Butylene adipate terephthalate). PBAT has the characteristics of both PBA and PBT, good mechanical properties and high ductility and elongation at break. PBAT can be completely biodegraded into CO2 and H2O. HENGLIECO KHB21 has obtained DIN CERTCO certification (EN13432, ASTM 6400, DINV 54900), OK COMPOST certification, BPI certification, FDA certification, etc. HENGLIECO KHB21 has good processing properties and can be blended with other materials for blow molding or extrusion.

SECTION 2: PROPERTIES

Typical Property							
Property		Test Standard	Unit	Typical Value			
	Tensile Strength	ASTM D 638	MPa	≥20			
Mechanical	Elongation At Break	ASTM D 638	%	> 400			
Property	Flexural Strength	ASTM D 790	MPa	3.6			
	Flexural Modulus	ASTM D 790	MPa	106			
Thermodynamic	Melting Point	DSC	°C	115-125			
Property	Vicat Softening Point	ASTM D 1525	°C	97.9			
	Melt Flow Rate	ASTM D 1238	g/10min	3-4			
Other	Moisture Absorption	ISO 15512	%	0.01			
	Density		g/cm³	1.22			
	Carboxy End Group	ISO 2114	Mol/t	≤20			

SECTION 3: PROCESSING

Blow Film Test								
Property		Test Standard	Unit	Typical Value				
Mechanical Property	Tensile Strength	ISO 527	MPa	MD	20			
	Strength			TD	20			
	Elongation At	ISO 527	%	MD	610			
	Break			TD	580			
	Heat	ASTM D 2732	%	MD	+13.2			
	Shrinkage			TD	+19.3			
Permeation	Oxygen	ASTM D3985	cm ³ /(m ² *d*bar)	1450				
Rate	Water Vapor	ASTM F-1249	g/(m²*d)	2	48			

HENGLIECO KHB21 has excellent processing performance, good temperature resistance, and good toughness. It can be blended with plasticized starch, calcium powder, talcum powder, etc. for modification. Indicators such as blown film stability, film-forming property, bag-making incision smoothness, bag-making elasticity, strength, elongation, heat-sealing performance, film surface smoothness, film surface gloss and others all meet the requirements of finished products.

Processing Conditions						
Set	ting L	Typical Value	Range			
Melt Temperature		155°C	145-165℃			
Barrel	Front Section	145℃	140-150℃			
Temperature	Middle Section	155℃	150-160℃			
	Back Section	150℃	145-155℃			
Die Temperature		150℃	145-155℃			
Processing Temperature Upper Limit		180℃				
Pre-drying Condition		70-80℃, 2-5h				

SECTION 4: SUPPLY FORM ANG STORAGE

HENGLIECO KHB21 is packaged with aluminized packaging. Two size packs are

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available, 800kg bag and 25kg bag. Drying is required if it is not used for a long time after opening the bag. The suggested drying conditions are 2-5 hours at 70-80°C. The slices contain water should below 0.02% after drying. Temperature during storage and transportation may not exceed 70°C, and the packaged products should be stored at the temperature lower than 23°C. Storage time of unopened bags may not surpass 12 months. Opened product should be used as soon as possible.

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