# Ecomann® PHA EM50000

### Polyhydroxyalkanoate

Shenzhen Ecomann Biotechnology Co., Ltd.

#### Message:

EM50000 is semi-crystalline biodegradable, aliphatic bio-polyester designed for use in elastomer applications. EM50000 is PHA based compound with some additives.

Ecomann EM50000 meets USFDA and EU direct food contact and OK compost and OK Home compost requirements. Typical applications: Pen cap, replace soft PVC, TPU, and thermo plastic elastomer

General Information				
Additive	Unspecified Additive			
Features	Aliphatic			
	Barrier Resin			
	Biodegradable			
	Compostable			
	Food Contact Acceptable			
	Good Flexibility			
	High Gloss			
	Moisture Resistant			
	Recyclable Material			
	Semi Crystalline			
Agency Ratings	EU Food Contact, Unspecified Rating			
	FDA Food Contact, Unspecified Ra	ating		
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.22	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (170°C/2.16	2.0			
kg)	2.0	g/10 min	ASTM D1238	
Water Absorption (Equilibrium)	< 0.40	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Shore Hardness (Shore D)	45		ISO 868	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength	9.00	MPa	ASTM D638	
Tensile Elongation (Break)	800	%	ASTM D638	
Impact	Nominal Value	Unit	Test Method	
Unnotched Izod Impact (Area)	No Break		ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	75.0	°C	ASTM D1525 <sup>1</sup>	

Melting Temperature	110 to 130	°C	DSC
Optical	Nominal Value	Unit	Test Method
Yellowness Index	75	YI	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	3.0	hr	
Rear Temperature	115 to 125	°C	
Middle Temperature	120 to 130	°C	
Front Temperature	130 to 135	°C	
Nozzle Temperature	130 to 135	°C	
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		

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#### Recommended distributors for this material

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