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 Rating				
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					
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 ¹		

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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