

Ecomann® PHA EM80010

Polyhydroxyalkanoate

Shenzhen Ecomann Biotechnology Co., Ltd.

Message:

EM80010 is semi-crystalline biodegradable, aliphatic bio-polyester designed for use in foam applications.

EM80010 is certificated to meet EU direct food contact, EN13432 and OK Home compost standards for biodegradable plastics.

Typical applications: Replace hard PVC, PS foam

General Information			
Features	Semicrystallization		
	Highlight		
	High strength		
	Excellent printability		
	Impact resistance, high		
	Workability, good		
	Good coloring		
	Heat resistance, high		
	Hydrolysis resistance		
	Biodegradable		
	Compliance of Food Exposure		
	Poor moisture permeability		
	aliphatic		
Uses	Foam		
Agency Ratings	EN 13432		
	European food contact, not rated		
Forms	Particle		
Processing Method	Foam treatment		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Apparent Density ¹	0.70	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	< 1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	600	MPa	ASTM D638
Tensile Strength			ASTM D638
-- ³	15.0	MPa	ASTM D638
-- ⁴	20.0	MPa	ASTM D638
Tensile Elongation			ASTM D638

Fracture ⁵	5.0	%	ASTM D638
Fracture ⁶	15	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ASTM D1525 ⁷
Melting Temperature	140 - 160	°C	DSC
Optical	Nominal Value	Unit	Test Method
Yellowness Index	50	YI	ASTM D1925

Additional Information

Drying Time: 3 hoursDrying Temperature: 175°F (80°C)Foaming Temperature: 302-320°F (150-160°C)

NOTE

- | | |
|----|---------------------------|
| 1. | Foam |
| 2. | Foam |
| 3. | Foam |
| 4. | Granule |
| 5. | Foam |
| 6. | Granule |
| 7. | 标准 B (120°C/h), 压力1 (10N) |

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