

Ecomann® PHA EM80000

Polyhydroxyalkanoate

Shenzhen Ecomann Biotechnology Co., Ltd.

Message:

EM80000 is semi-crystalline biodegradable, aliphatic bio-polyester designed for use in foam applications.

EM80000 is certificated to meet EU direct food contact, EN13432 and OK Home compost standards for biodegradable plastics.

Typical applications: Foot pad, replace soft PVC, TPU foam

General Information			
Features	Semicrystallization		
	High strength		
	Workability, good		
	Good coloring		
	Hydrolysis resistance		
	Soft		
	Biodegradable		
	Compliance of Food Exposure		
	aliphatic		
Uses	Foam		
	Footwear		
Agency Ratings	EN 13432		
	European food contact, not rated		
Forms	Particle		
Processing Method	Foam treatment		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Apparent Density ¹	0.62	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	< 1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	40.0	MPa	ASTM D638
Tensile Strength			ASTM D638
-- ³	1.60	MPa	ASTM D638
-- ⁴	7.00	MPa	ASTM D638
Tensile Elongation			ASTM D638
Fracture ⁵	11	%	ASTM D638
Fracture ⁶	800	%	ASTM D638

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	75.0	°C	ASTM D1525 ⁷
Melting Temperature	110 - 130	°C	DSC
Optical	Nominal Value	Unit	Test Method
Yellowness Index	75	YI	ASTM D1925

Additional Information

Drying Time: 3 hoursDrying Temperature: 175°F (80°C)Foaming Temperature: 284-302°F (140-150°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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