

# Ecomann® Bioresin EM40000

Polyhydroxyalkanoate

Shenzhen Ecomann Biotechnology Co., Ltd.

Message:

EM40000 is semi-crystalline biodegradable, aliphatic bio-polyester designed for use in sheet applications.EM40000 is PHA base compound with PLA and some additives.  
EM40000 is certificated to meet EN13432 & ASTM D6400 standards for biodegradable plastics.  
Typical applications: Translucent thermoformed packaging products

General Information			
Additive	Unspecified Additive		
Features	Aliphatic		
	Biodegradable		
	Compostable		
	Good Colorability		
	Good Processability		
	High Gloss		
	High Heat Resistance		
	High Impact Resistance		
	Low Moisture Vapor Transmission		
	Moisture Resistant		
	Recyclable Material		
	Semi Crystalline		
Uses	Packaging		
	Sheet		
	Thermoforming Applications		
Agency Ratings	ASTM D 6400		
	EN 13432		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	< 0.40	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	25.0	MPa	ASTM D638

Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	1200	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Oxygen Transmission Rate (40°C, 90% RH, 350 µm)	42	cm <sup>3</sup> /m <sup>2</sup> /24 hr	
Water Vapor Transmission Rate (25°C, 90% RH, 350 µm)	6.0	g/m <sup>2</sup> /24 hr	
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (Area)	4.00	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525 <sup>1</sup>
Melting Temperature	140 to 160	°C	DSC
Optical	Nominal Value	Unit	Test Method
Yellowness Index	50	YI	Internal Method
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Cylinder Zone 1 Temp.	145 to 155	°C	
Cylinder Zone 3 Temp.	135 to 145	°C	
Cylinder Zone 5 Temp.	135 to 145	°C	
Die Temperature	140 to 155	°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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