

Ecomann® Bioresin EM30010

Polyhydroxyalkanoate

Shenzhen Ecomann Biotechnology Co., Ltd.

Message:

EM30010 is semi-crystalline biodegradable, aliphatic bio-polyester designed for use in extrude tube applications. EM30010 is PHA base compound with PLA and some additives.
EM30010 is certificated to meet EN13432 & ASTM D6400 standards for biodegradable plastics.
Typical applications: Shampoo bottles, cosmetics bottles

General Information			
Additive	Unspecified Additive		
Features	Aliphatic		
	Barrier Resin		
	Biodegradable		
	Compostable		
	Good Colorability		
	Good Processability		
	High Gloss		
	High Molecular Weight		
	Recyclable Material		
	Semi Crystalline		
Uses	Bottles		
	Tubing		
Agency Ratings	ASTM D 6400		
	EN 13432		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	< 0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	15.0	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Films	Nominal Value	Unit	Test Method

Oxygen Transmission Rate (40°C, 90% RH, 130 µm)	130	cm ³ /m ² /24 hr	
Water Vapor Transmission Rate (25°C, 90% RH, 130 µm)	15	g/m ² /24 hr	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	70.0	°C	ASTM D1525 ¹
Melting Temperature	130 to 150	°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.	115 to 130	°C	
Cylinder Zone 3 Temp.	125 to 135	°C	
Cylinder Zone 5 Temp.	130 to 145	°C	
Die Temperature	115 to 130	°C	
NOTE			

1. Rate B (120°C/h), Loading 1 (10 N)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

