

Ecomann® Bioresin EM20030

Polyhydroxyalkanoate

Shenzhen Ecomann Biotechnology Co., Ltd.

Message:

EM20030 is semi-crystalline biodegradable, aliphatic bio-polyester designed for use in injection molding applications. EM20030 is PHA base compound with PLA, plant fibers and some additives...

EM20030 is certificated to meet EN13432 & ASTM D6400 standards for biodegradable plastics

Typical applications: Paint brush handles and wood color injection molding products

General Information			
Additive	Unspecified Additive		
Features	Aliphatic		
	Biodegradable		
	Compostable		
	Good Processability		
	High Stiffness		
	Hydrolysis Resistant		
	Medium Heat Resistance		
	Recyclable Material		
	Semi Crystalline		
Uses	Handles		
	Simulated Wood Parts		
Agency Ratings	ASTM D 6400		
	EN 13432		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.1	%	ASTM D955
Water Absorption (Equilibrium)	< 0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	25.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	1200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (Area)	3.00	kJ/m ²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525 ¹
Melting Temperature	140 to 160	°C	DSC
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Rear Temperature	135 to 145	°C	
Middle Temperature	145 to 150	°C	
Front Temperature	150 to 155	°C	
Nozzle Temperature	150 to 155	°C	
Mold Temperature	40.0	°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

