



Natural MT[®] GM-J105

Heat Resistant Injection Moulding

Features:

Natural materials, non-toxic, safe for direct contact with food, will not release substances that may cast any harm to human when in contact with alcohol or acidic contents, biodegrade and decompose naturally like plants, will not produce any toxic substances

when incinerated, and recyclable. Being environmental friendly and safe, it allows users to have peace of mind.

Applications:

Cups, lids, cutlery, industrial packaging, food packaging and etc.

Physical	Typical Value	Unit	Test
Specific Gravity	1.23	-	GB/T 1033
Moulding Shrinkage	0.1-0.2	%	Internal Method
Mechanical			
Tensile Modulus	4.94	Gpa	ASTM D638
Tensile Stress (Yield)	79.9	Mpa	ASTM D638
Tensile Strain (Break)	2.82	%	ASTM D638
Impact			
Notched Izod Impact Strength	4.85	KJ/m ²	ASTM D256
Thermal			
Glass Transition Temperature	61.3	°C	DSC
Melting Temperature	166.1-170.1	°C	DSC
Crystallization temperature	122.0	°C	DSC
Bio-based Information			
Bio-based Content	> 90	%	Internal Method
Decomposition Period	≈ 24~36	Months	Internal Method
Specific Migration Limit	Not Detected	mg/kg	EN71 Part3
Injection Moulding			
Melt Flow Rate (@190°C, 2.16kg)	≤ 8~10	g/10 min	Internal Method
Drying Temperature	40~50	°C	ASTM Dxxxx
Drying Time	4	Hrs	Internal Method
Suggested Max Moisture	≤ 0.4~0.5	%	Internal Method
Rear Temperature	154.4	°C	Internal Method
Front Temperature	157.2	°C	Internal Method
Processing (Melt) Temp	166.1-170.1	°C	Internal Method
Mould Temperature			
General	60	°C	Internal Method
Crystallization	100	°C	Internal Method

Standard Packaging and Labeling:

Natural MT® GM-J105 material is packaged with a foil lined inner paper bag and multi outer paper bags containing 25 kg (55 pounds) of granules. Individual packages will be plainly marked with the product number, the color, the lot number, and the net weight.

Recommended handling procedures:

- Cleaning: Mould head and feed screw cleaning
- Storage: Dry condition at room temperature

Notes: The information, to our knowledge, is believed to be correct. Since Green Miracle Technology cannot anticipate all variations in actual end-use conditions, Green Miracle Technology makes no warranties and assumes no liability in connection with any use of this information. The use of this product in its actual conditions are beyond our control and satisfactory results for this product is the customer's sole responsibility.

Regional Representative

For assistance, please contact our local representative of our regional customer contact centers:

Taiwan (Head Office)

KS Tronic Development Corp
2F., No.104, Sec. 1, Wenhua 1st Rd.,
Linkou Dist., New Taipei City 244,
Taiwan
Tel: +886 (2) 26089781

Germany

Ingenieur- und Innovationsbüro WITTPAHL
Philosophenweg 16
D-26121 Oldenburg
Germany
Tel: +49 (441) 2197965
Fax: +49 (441) 2197966

Global Sales and Marketing

Tel: +1 (604) 8002344 (BC, Canada)

Malaysia

TWG Solutions Sdn Bhd
244, Jalan Perindustrian Bukit Minyak 3,
Kawasan Perindustrian Bukit Minyak, 14100,
Simpang Ampat, Penang,
Malaysia
Tel: +60 (4) 5040218

www.kstronic.com

